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- Azimov, Ya. I. = Azimov, Ja. I.
- Azis, A. K. 247: (with Diaz, J. B.) On a mean-value theorem of the differential calculus of vector-valued functions, and uniqueness theorems for ordinary differential equations in a linear-normed space. 248: (with Diaz, J. B.) On a mean-value theorem of the weak differential calculus of vector-valued functions.
- Azorin Poch, Francisco. 2064: Note on the estimation of variance by the random group method.
- Aspettia, A. G. 1571: On a certain type of complex integral.
- Azra, J.-P. 21: (with Bourgne, Robert) ★Ecrits et mémoires mathématiques d'Évariste Galois: Édition critique intégrale de ses manuscrits et publications.
- Azumaya, Goro. 4846: A note on Hochschild cohomology groups.
- Al'mutdinov, T. 5035: A variational problem connected with finding the eigenvalues and fundamental functions of the two-dimensional Lamé equation.
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- Babaev, D. A. 1065: Numerical solution of a flow problem on the upper surface of a supersonic delta wing.
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- Babikov, Gueorgui V. 4836: On the structure of Clifford algebras.
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- Bacry, H. 1123: Thomas's classical theory of spin.
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- Bai, Zheng-guo = Pai, Cheng-kuo.
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- Balčev, I. 4971: On Jacobi polynomials.
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- Baker, Irvine Noel. 3803: Multiply connected domains of normality in iteration theory.
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- Balanat, Manuel. 1807: Les intégrales curvilignes et la différentielle d'Hadarnard-Fréchet dans les espaces vectoriels topologiques. 2840: Theory of the differential in the sense of Hadarnard-Fréchet for mappings between topological vector spaces. I.
- Balaş, E. 1305: (with Hammer, L. P.) The transportation problem with interchangeable centres. 1308: (with Hammer, L. P.) Au sujet du problème des transports. IV. Une méthode pour résoudre les problèmes des transports. 1306: (with Ivănescu, P.) On the transportation problem. II. Parametric transportation problems. 1307: (with Ivănescu, P.) On the transportation problem. III. Transportation problems with variable centres.
- Balázs, M. 3554: (with Borjan, D.; Froda-Schechter, M. and Hamburg, P.) Opérateurs dans des ensembles de parties.
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- Bandić, I. 1637: Sur l'intégration d'une classe d'équations différentielles quasi-homogènes du premier ordre. 1638: Sur quelques équations différentielles non-linéaires tri-dimensionnelles du deuxième et du troisième ordre.
- Bandler, Willis. 1477: Compatible rings and algebras. 5891: Bilinearity and multilinearity over arbitrary rings with units.
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- Barantsev, R. G. = Barancev, R. G.
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- Barbašov, B. M. 1161: (with Arbuzov, B. A.; Logunov, A. A.; Nguyen Van Hieu; Tavkhelidze, A. N.; Faustov, B. N. and Filipov, A. T.) Regge-poles and perturbation theory. II.
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- Bather, J. A.** 869: Bayes procedures for deciding the sign of a normal mean. 2016: Two non-linear birth and death processes. 2017: Optimal regulation policies for finite dams. 2018: The optimal regulation of dams in continuous time.
- Batt, Jürgen.** 2332: Ein Existenzbeweis für die Vlasov-Gleichung der Stelldynamik bei gemittelter Dichte. 6612: ★Fixpunktprobleme bei partiellen Differentialgleichungen im Zusammenhang mit dem statistischen Anfangswertproblem der Stelldynamik.
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- Bauer, Friedrich-Wilhelm.** 1947: Axiomatische Charakterisierung der singulären Homologietheorie.
- Bauer, Heinz.** 5926: Weiterführung einer axiomatischen Potentialtheorie ohne Kern (Existenz von Potentialen).
- Baum, Leonard E.** 793: Acknowledgment of priority. 1976: (with Katz, Melvin L.) On the influence of moments on the asymptotic distribution of sums of random variables. 6296: (with Katz, Melvin) Convergence rates in the law of large numbers.
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- Bell, J. S. 1236: Fluctuation compressibility theorem and its application to the pairing model. 4590: Rest energy, rest mass, and non-covariant electrodynamics.
- Bellemans, A. 5577: Statistical mechanics of surface phenomena. I. A cluster expansion for the surface tension.
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- Bellevaux, Claude. 1297: Développements asymptotiques dans la théorie d'Ekman des courants marins.
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- Bender, B. K. 1321: (with Goldman, A. J.) Maximum cellular Boolean functions and perfect Gray codes.
- Benedicty, Mario. 1872: Sulle trilinearità tra rette.
- Benel, Václav E. 2014: ★General stochastic processes in the theory of queues. 4718: Heuristic remarks and mathematical problems regarding the theory of connecting systems. 4719: Algebraic and topological properties of connecting networks.
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- Berens, Hubert. 1784: (with Butzer, Paul L.) Über die Darstellung holomorpher Funktionen durch Laplace- und Laplace-Stieltjes-Integrale.
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- Berezin, F. A. 245: Laplace operators on semi-simple Lie groups. 3306: On the Lee model. 1910: (with Gel'fand, I. M.) Some remarks on the theory of spherical functions on symmetric Riemannian manifolds.
- Berezina, L. 654: A pair of superimposed surfaces with constant distance between corresponding points and the trihedron of S. D. Rominakii. 655: Curvatures of a 4-dimensional trajectory.
- Berg, L. 541: Über das asymptotische Verhalten eines speziellen Faltungsintegrals. 3899: Asymptotische Auflösung von Differential-Funktionalgleichungen. 3990: Asymptotische Entwicklungen mit Hilfe von Neutritzen.
- Berg, Paul W. 1064: The existence of subsonic Helmholtz flows of a compressible fluid.
- Bergau, P. 1960: (with Mennicke, J.) Über topologische Abbildungen der Brezelsfläche vom Geschlecht 2.
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- Berger, Robert. 175: Über eine Klasse unvergabelter lokaler Ringe. 2524: Differentialmoduln eindimensionaler lokaler Ringe.
- Bergman, Stefan. 3818: Integral operators in the study of an algebra and of a coefficient problem in the theory of three-dimensional harmonic functions. 3829: On value distribution of meromorphic functions of two complex variables. 4950: Some distortion theorems of quasi-analytic mappings in the space of two complex variables.
- Bergstrom, A. R. 5319: The exact sampling distributions of least squares and maximum likelihood estimators of the marginal propensity to consume.
- Berković, F. D. 5145: Solution of an infinite system of linear algebraic equations in a class of increasing sequences.
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- Berljand, O. S. = Berljand, O. S.
- Berman, D. L. 516: Extremal problems in the theory of polynomial operators. 1827: On the theory of linear polynomial operations. 5073: On the best grid system for parabolic interpolation.
- Berman, Gerald. 4705: (with Stanton, R. G.) The asymptotes of the root locus.
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- Basilevitch, A. S. 1573: Minimum area of a set of constant width. 2912: On semicircles inscribed into sets of constant width. 2913: On angular points of convex surfaces. 2914: On the set of directions of linear segments on a convex surface. 5172: A cage to hold a unit-sphere.
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- Bhattacharya, P. L. 3223: (with Rathna, S. L.) Flow of a fluid between two rotating coaxial cones having the same vertex. 5460: (with Rathna, S. L.) Weissenberg and Merrington effects in non-Newtonian fluids.
- Bhatt, S. J. 982: (with Atkinson, C. P. and Pacitti, Tercio) The stability of the normal modes of nonlinear systems with polynomial restoring forces of high degree.
- Bhatt, Shri Nivas. 5062: On the summability factors of infinite series. 5063: An aspect of local property of absolute Nörlund summability of a Fourier series. 5094: Addendum: "An aspect of local property of absolute Nörlund summability of a Fourier series".
- Bhattacharjee, A. 2260: (with Sudarshan, E. C. G.) A class of solvable potentials.
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- Bialas, Elzbieta. 1279: (with Bialas, Andrzej) Equations for the vector field in Rayski's unitary theory.
- Bialy, Horst. 6373: Iterative Lösung einer Matrizengleichung.
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- Bilo, J. 4113: Note on I. J. Schoenberg's paper.
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- Blatz, Paul J. 998: Finite elastic deformation of a plane strain wedge-shaped radial crack in a compressible cylinder.
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- Blekhman, I. I. = Blehman, I. I.
- van der Blij, F. 2498: Méthodes algébriques et analytiques dans la théorie des nombres. 2533: (with Springer, T. A.) The arithmetics of octaves and of the group G_8 .
- Blohin, L. D. 5555: (with Dolinsky, E. I. and Popov, V. S.) Non-relativistic Feynman graphs and direct nuclear reactions.
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- tation problem for stationary stochastic processes with trivial tail field. 5321: (with Rosenblatt, Judah) On multi-stage estimation. 5323: (with Hanson, D. L. and Rosenblatt, J. L.) On the central limit theorem for the sum of a random number of independent random variables. 490: (with Norris, M. J. and Wing, G. M.) Asymptotic behavior of solutions of a functional equation.
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- Boboc, Nicu. 337: (with Constantinescu, Corneliu and Cornea, Aurel) Sur le problème de Dirichlet dans l'axiomatique des fonctions harmoniques.
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- Bochner, S. 5284: General analytical setting for the central limit theory of probability. 5988: A generalization of bounded Haar measure.
- Bodner, S. R. 2153: (with Gjelsvik, A.) Buckling of an elastic plastic cylinder subjected to external pressure and heating.
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- Bogačenko, I. V. 4843: On the structure of the cohomology ring of the Sylow subgroup of the symmetric group.
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- Bogdanowicz, Witold. 1675: On the existence of almost periodic solutions for systems of ordinary nonlinear differential equations in Banach spaces.
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- Bognár, Katalin. 4252: On random sets.
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- Bogoljubov, N. N., Jr. 1248: (with Sadovnikov, B. I.) Green's functions and distribution functions in the statistical mechanics of classical systems. 2302: (with Sadovnikov, B. I.) The Hartree-Fock equation in the Green's function method. 5973: (with Sadovnikov, B. I.) Periodic solutions of an n th-order differential equation with small parameter.
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- Bogui, A. A. 4586: Computation of matrix elements of scalar particles.
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- Bohm, D. 1164: (with Aharonov, Y.) Further discussion of the role of electromagnetic potentials in the quantum theory.
- Bohm, David. 1262: (with de Broglie, Louis; Hillion, Pierre; Halbwachs, Francis; Takabayasi, Takehiko and Vigier, Jean-Pierre) Rotator model of elementary particles considered as relativistic extended structures in Minkowski space.
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- Bokstein, M. 1481: A theorem on universal coefficients for spectral cohomology groups of differential groups. 1482: A multiple Künneth formula.
- Bokut', L. A. 2530: Some imbedding theorems for rings and semi-groups. I. 2535: Embedding Lie algebras into algebraically closed Lie algebras. 2536: Representation of Lie algebras in radical rings. 3672: Some embedding theorems for rings and semigroups. II.
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- Boley, B. A. 2645: Some bounds for steady-state temperature distributions.
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- Bol'nev, L. N. 2026: Asymptotic Pearson transformations. 919: (with Kuznetsov, P. I.) On the evaluation of the integral $p(x, y) = 2 \int_0^\infty u e^{-(x^2+y^2)I_0(2uy)} du$. 911: (with Smirnov, N. V.) ★ Tables for evaluating a function of a two-dimensional normal distribution.
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- Bondar, N. G. 402: Nonlinear oscillations in the presence of small resistance forces proportional to the velocity.
- Bondar, V. D. 3128: On the possibility of considering the deformed and stressed states of a medium as the initial state.
- Bondarenko, B. A. 994: An approximate solution of the first and second fundamental problems of elasticity theory for a parallelepiped. 993: (with Aržanyh, I. S.) An application of the theory of functions of a complex variable to the problems of the mathematical theory of elasticity.
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- de Boor, Carl. 3982: Best approximation properties of spline functions of odd degree.
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- Borodačev, N. M. = Borodačev, M. M.
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- Bose, S. C. 5402: Stress concentrations around small inclusions on the axis of a circular cylinder under torsion.
- Botes, Mihail 5t. 640: On the diameters of a class of cubics.
- Bothe, H. G. 1953: Eine Einbettung m -dimensionaler Mengen in einen $(m+1)$ -dimensionalen absoluten Retrakt.
- Bott, Raoul. 2988: A note on the KO -theory of sphere-bundles.
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- Bouix, Maurice. 4457: Les formules générales du rayonnement électromagnétique harmonique et les conditions de compatibilité sur une surface fermée.
- Bouligand, Georges. 652: Microphénomènes en géométrie différentielle d'un R^n . 1683: Sur un type de problème singulier au sein d'un groupement.
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- Bourbaki, N. 1340: ★Éléments de mathématique. I: Les structures fondamentales de l'analyse. Livre IV: Fonctions d'une variable réelle (théorie élémentaire). Chapitres 1, 2 et 3: Dérivées. Primitives et intégrales. Fonctions élémentaires. 4757: ★Éléments de mathématique. Les structures fondamentales de l'analyse. Livre I: Théorie des ensembles. Fascicule de résultats. 4758: ★Éléments de mathématique. Fasc. XX. Livre I: Théorie des ensembles. Chapitre 3: Ensembles ordonnés cardinaux, nombres entiers. 5765: Éléments de mathématique. Première partie. Fascicule VI. Livre II: Algèbre. Chapitre 2: Algèbre linéaire.
- Bourdy, José. 5781: Topologies liées à des extensions d'anneaux commutatifs.
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- Bourret, R. C. 6473: Propagation of randomly perturbed fields.
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- de Broglie, Louis. 1121: Remarques sur l'interprétation de la dualité des ondes et des corpuscules. 1203: (with Halbwachs, Francis; Hillion, Pierre; Takabayasi, Takehiko and Vigier, Jean-Pierre) Space-time model of relativistic extended particles in Minkowski space. II. Free particle and interaction theory. 1202: (with Bohm, David; Hillion, Pierre; Halbwachs, Francis; Takabayasi, Takehiko and Vigier, Jean-Pierre) Rotator model of elementary particles considered as relativistic extended structures in Minkowski space.
- Broise, P. 967: Introduction à la méthode des relais dans le cadre de la notation ALGOL.
- Brooks, Foster. 5303: (with Diamantides, N. D.) A probability theorem for random two-valued functions, with application to autocorrelations.
- Bros, J. 1144: (with Messiah, A. and Stora, R.) A problem of analytic completion related to the Jost-Lehmann-Dyson formula.
- Brozas, António. 2244: Restrições impostas par la relativité au lagrangien de Mie.
- Brousse, P. 438: Étude à la frontière de l'intégrale de Poisson généralisée, relative à un opérateur elliptique du type Euler-Darboux-Poisson.
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- Browder, William. 765: Homotopy commutative H -spaces. 5260: Higher torsion in H -spaces. 1955: (with Thomas, Emery) On the projective plane of an H -space.
- Browkin, J. 2493: On the generalized class field tower.
- Brown, David P. 6670: Derivative-explicit differential equations for RLC graphs.
- Brown, Edgar H., Jr. 749: Correction to "Cohomology theories".
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- Brown, John L., Jr. 800: A criterion for the diagonal expansion of a second-order probability distribution in orthogonal polynomials. 1980: Mean square truncation error in series expansions of random functions.
- Brown, Lowell. 3300: (with Schwinger, Julian) Spin and statistics.
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- Brown, S. N. 4445: The effect of heat transfer on boundary-layer growth.
- Brown, Thomas A. 1940: (with Auslander, Louis and Youngs, J. W. T.) The imbedding of graphs in manifolds.
- Brown, W. A. 5640: (with King, R. E.) A cumulative probability distribution analyser.
- Brown, W. Byers. 3274: (with Hirschfelder, Joseph O.) The integration of the first-order perturbed wave equation for excited states of one-dimensional systems.
- Brown, William G. 746: Enumeration of non-separable planar maps.
- Brown, William M. 2078: Sampling with random jitter. 3480: ★Analysis of linear time-invariant systems.
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- Bruđno, A. L. 1803: Topology of Toeplitz fields.
- Bruđovskii, B. S. 4041: Countability conditions in locally convex spaces.
- de Bruijn, N. G. 6073: Carleman's inequality for finite series.
- Brumer, Armand. 2543: Structure of hereditary orders.
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- Bruni, Marcello. 4183: Sulla curvatura delle linee di una superficie quasi caratteristica immersa in una varietà quasi hermitiana.
- Brydak, D. 1725: (with Kordylewski, J.) On monotonic sequences defined by a recurrence relation.
- Bublik, B. A. 696: On the number of fundamental infinitesimal bendings of closed edged surfaces of revolution.
- Buchanan, Mary Louise. 4373: A necessary and sufficient condition for stability of difference schemes for second-order initial value problems.
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- Buckholtz, J. D. 1754: Concerning an approximation of Copson. 2754: Column sequences in Hausdorff matrices.
- Bucur, I. 699: On a class of differentiable manifolds.
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- Budak, B. M. 2119: On homogenous differential-difference schemes of second-order accuracy for parabolic and hyperbolic equations with discontinuous coefficients.
- Budd, Herbert. 4640: Résolution de l'équation de Boltzmann. 4641: The generalized path variable method.
- Budde, C. Donald La. See La Budde, C. Donald.
- Budini, P. 1146: Regge poles in renormalizable field theories. 4535: (with Furlan, G.) High-energy behaviour of electrodynamical cross-sections.
- Buehler, R. J. 850: (with Feddersen, A. P.) Note on a conditional property of Student's t . 2023: (with Lentner, M. M.) Some inferences about gamma parameters with an application to a reliability problem.
- Buffer, R. 2162: Die Bestimmung des Spannungs- und Verschiebungszustandes eines geschichteten Körpers mit Hilfe von Übertragungsmatrizen.
- Bugrov, Ja. S. 330: Polyharmonic functions in a half-plane. 5024: Inequalities for harmonic polynomials. 6112: On the continuation of functions.
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- Bunatjan, L. A. 5393: Motion of a free gyroscope on a non-stationary basis with allowance for the masses of the Cardan suspension rings.
- Bunge, Mario. 5634: A general black box theory.
- Bunke, Helga. 1985: Stabilität bei stochastischen Differentialgleichungssystemen.
- Buraczewski, A. 4084: The determinant theory of generalized Fredholm operators.
- Burak, Ja. I. 1035: (with Podstrigat, Ja. S.) Singular solutions of the dynamic problem of thermo-elasticity for an infinite medium.
- Bureau, Werner. 2890: ★Algebraische Kurven und Flächen. Bd. I: Algebraische Kurven der Ebene. 4122: Sopra una classe di superficie rigate in S_n e la teoria delle coniche in posizione di Poncelet. 5162: Sopra una classe di superficie rigate e la teoria di coniche in posizione di Chiusura. 6175: ★Algebraische Kurven und Flächen. Bd. II: Algebraische Flächen 3. Grades und Raumkurven 3. und 4. Grades.
- Buravcev, A. I. 3142: Propagation of an elastic-plastic load wave in a rod of finite length.
- Burčuladze, T. V. 466: An application of singular integral equations to the solution of certain boundary-value problems.
- Burde, Gerhard. 1942: Zur Theorie der Zöpfe.

- Bures, D. J. C. 1899: Certain factors constructed as infinite tensor products.
- Burgers, J. M. 1256: On Landau damping in a fully ionized plasma and its combination with collisional damping. 3242: Application of the two-particle distribution function to estimate the collisional damping of plasma oscillations.
- Burgoyne, P. N. 5565: Remarks on the combinatorial approach to the Ising problem.
- Burks, Arthur W. 2385: Programming and the theory of automata.
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- Bushaw, D. 2697: Dynamical polysystems and optimization.
- Buslaev, V. S. 3264: On the short-wave asymptotic limit in the problem of diffraction by convex bodies.
- Bushenko, N. P. 2085: (with Golenko, D. I.; Sobol', I. M.; Sragovič, V. G. and Šreider, Ju. A.) ★The method of statistical testing (The Monte Carlo method).
- Butcher, J. C. 2109: Coefficients for the study of Runge-Kutta integration processes. 2110: On the integration processes of A. Hün.
- Buti, B. 1080: Relativistic effects on plasma oscillations and two-stream instability. II.
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- Buison, Alton T. 1518: (with Andrus, Jan F.) Ordered groups.
- Butzer, Paul L. 1784: (with Berens, Hubert) Über die Darstellung holomorpher Funktionen durch Laplace- und Laplace-Stieltjes-Integrale.
- Byckling, Kero. 3370: The equation of state of a one-dimensional system with attractive potential.
- Bydžovský, Bohumil. 1876: Inflection points of certain planar quartics.
- Čaban, I. A. 192: Semi-commutative and verbal products of groups.
- Cabannes, Henri. 1250: Théorie cinétique des mélanges gazeux: sur les fonctions propres de l'opérateur de collision linéarisé.
- Cahen, M. 3418: (with Sengier-Diels, J.) Sur le formalisme des tétrapodes en théorie de la gravitation.
- Cal, I. P. 995: On separation of variables in the equations of the dynamics of elasticity theory.
- Calanelli, E. R. 3299: Regularization and renormalization. II. Necessary and sufficient conditions. 4531: Asymptotic convergence of renormalized perturbative expansions. 5526: (with Marinaro, M.) Renormalization group and completeness of field theories. Nucleon-pion couplings.
- Cairns, Stewart S. 5695: On permutations induced by linear value functions.
- Čakan', B. = Csákány, B.
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- Calais, Josette. 220: Propriétés de équivalences principales généralisées. 5853: Complexes $\rho^{\alpha, \beta}$ -parfaits d'un demi-groupe. Étude de $D/\rho_{\alpha, \beta}$.
- Calderón, A. P. 6010: Existence and uniqueness theorems for systems of partial differential equations. 1542: (with Zygmund, A.) On the differentiability of functions which are of bounded variation in Tonelli's sense.
- Calenka, M. S. 292: Some remarks on infinite simple groups. 1484: Completion of categories by free and direct joins of objects.
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- Callen, H. B. 1250: A note on Green functions and the Ising model.
- Calogero, F. 3258: Maximum and minimum principle in potential scattering. 4564: Asymptotic behavior of the S -matrix in potential scattering for large imaginary values of angular momentum. 4565: Analytic continuation and asymptotic behavior in angular momentum of the scattering matrix in potential scattering.
- Cam, L. Le. See Le Cam, L.
- Cambel, A. B. 1092: (with Kauslarich, J. J.) The momentum integral approximation for compressible magnetogasdynamical boundary-layer flow. 2227: (with Liu, Ching Shi) One-dimensional magnetogasdynamical flow with wall friction.
- Cameron, I. G. 3243: The attenuation of hydromagnetic shock waves in a shock tube. 6465: The application of the von Neumann method to a steady one-dimensional detonation wave.
- Cameron, R. H. 831: The Ito and Feynman integrals.
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- Cannon, J. R. 6045: A Dirichlet problem for an equation of mixed type with a discontinuous coefficient.
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- Cantor, David G. 42: On the ambiguity problem of Backus systems. 1565: Power series with integral coefficients.
- Cantrill, J. C. 4237: Almost locally flat embeddings of S^{n-1} in S^n . 5242: Separation of the n -sphere by an $(n-1)$ -sphere. 6274: Non-flat embeddings of S^{n-1} in S^n .
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- Capriz, G. 5408: Sulle vibrazioni di aste rotanti.
- Caracciolo di Forino, Alfonso. 4398: Some remarks on the syntax of symbolic programming languages.
- Carafoli, Elie. 5446: (with Horowitz, Béatrice) Problèmes indirects des ailes triangulaires cruciformes en écoulement supersonique.
- Caraman, Petru. 322: Sur quelques classes de représentations conformes de E_n . 735: Le théorème de la surface θ et le théorème de la conservation topologique des domaines dans l'espace euclidien tridimensionnel. 1594: Contribution à l'étude des représentations quasi-conformes tridimensionnelles. 1595: Théorèmes d'existence locale des représentations quasi-conformes différentiables à n dimensions. 1918: Deux extensions du théorème de la courbe θ et une nouvelle démonstration du théorème de la conservation du domaine pour l'espace euclidien à n dimensions. 3797: Existence theorems for n -dimensional quasiconformal mappings.
- Cardamone, Luigi. 4910: Sulla validità per uguaglianza della relazione triangolare di Steiner. 250: (with Baiada, E.) Validità per uguaglianza della relazione triangolare di Steiner.
- Cargo, G. T. 367: Radial and angular limits of meromorphic functions. 308: Normal functions, the Montel property, and interpolation in H^∞ . 5912: Some geometric aspects of functions of Hardy class H^p .
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- Carini, Giovanni. 4476: Sulla termodinamica di un fluido dielettrico.
- Carlitz, L. 56: Sums of products of multinomial coefficients. 136: Simultaneous representations in quadratic and linear forms over $GF(q, x)$. 363: An integral formula for the Jacobi polynomial. 1404: A Fibonacci array. 2443: Some binomial coefficient identities. 2444: The distribution of binomial coefficients (mod p). 2492: Binomial coefficients in an algebraic number field. 2653: The coefficients of the lemniscate function. 2663: Some formulas for the Bernoulli and Euler polynomials. 3561: A note on the Jacobi theta formula. 3627: The distribution of irreducible polynomials in several indeterminates. 3839: The inverse of the error function. 3840: Summation of a special ${}_4F_3$. 3841: A bilinear

- generating function for the Jacobi polynomials. 3960: A multiple sum. 4786: Criteria for Kummer's congruences. 4960: A class of symmetric q -polynomials. 362: (with Al-Salam, W. A.) The Gegenbauer addition theorem. 4962: (with Al-Salam, W. A.) Some functions associated with the Bessel functions. 2656: (with Thomas, J. M.) Rational tabulated values of trigonometric functions.
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- Carnal, Henri. 4260: Sur les théorèmes de Kolmogorov et Smirnov dans le cas d'une distribution discontinue.
- Carroll, F. W. 274: On some classes of noncontinuable analytic functions.
- Carroll, J. E. 6576: A single-velocity analysis of a multi-velocity electron stream.
- Carroll, Robert W. 1706: Some singular Cauchy problems.
- Carrusio, Ettore. 30: Equazioni logiche nel calcolo delle proposizioni.
- Cartan, Henri. 4011: ★Elementary theory of analytic functions of one or several complex variables.
- Carter, R. L. 890: (with Bose, R. C.) Response model coefficients and the individual degrees of freedom of a factorial design.
- Cartwright, M. L. 312: On the decomposition of functions regular in a circle. 4959: Almost periodic solutions of certain second order differential equations.
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- Cascante, J. M.² 430: Solution of a Cauchy problem for a certain third-order partial differential equation. 3942: Successive approximations to the solutions of third-order partial differential equations. [
- Čalčina, N. S. 3787: On the theory of a universal Dirichlet series.
- Case, K. M. 2288: (with Gasiorowicz, S. G.) Can massless particles be charged?
- Cashwell, E. D. 5786: (with Everett, C. J.) Formal power series.
- Cassels, J. W. S. 4803: Corrigendum to the paper "On a problem of Rankin about the Epstein zeta-functions".
- Castellano, Vittorio. 4256: Estensione alle variabili ordinarie del concetto di convergenza in probabilità.
- Cater, S. 587: On Hilbert space operators and operator roots of polynomials. 5116: Algebras of bounded functions in L_p .
- Cattaneo, Carlo. 2324: Principi di conservazione e teoremi di Gauss in relatività generale.
- Cattaneo Gasparini, Ida. 6217: Proiezioni dei tensori di curvatura di una varietà riemanniana a metrica iperbolica normale.
- Caughey, T. K. 1028: Vibration of dynamic systems with linear hysteretic damping (linear theory).
- Cavallès, Paul. 2946: Introduction géométrique de la notion d'algèbre de Clifford en théorie des spineurs.
- Cavior, S. R. 3628: A note on octic permutation polynomials.
- Čayner, I. = Tschauer, J.
- Cazacu, Gabriela Andreian. See Andreian Cazacu, Gabriela.
- Cazzani Neri, Maria Grazia. 2705: Un teorema di unicità per un sistema di equazioni a derivate parziali del primo ordine.
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- Celtin, G. S. 2406: Algorithmic operators in constructive metric spaces. 2407: Mean-value theorems in constructive analysis. 2408: Singular coverings and properties of constructive functions connected with them.
- Cetlin, B. M. 5644: (with Pinsker, I. Sh.) A nonlinear optimization problem.
- Čekmarev, T. V. 6028: Solution of a second-order differential equation of hyperbolic type by reducing it to a system of integral equations.
- Čelidze, V. G. 1743: Tauberian theorems for multiple series.
- Čemeris, V. S. 996: On a method of approximate solution of the second basic axisymmetrical problem of the theory of elasticity.
- Čen', Pin. 5311: Non-negative jump points of an empirical distribution function relative to a theoretical distribution function.
- Čen', Sin'-cen. 1640: (with Huan, Ci-jui and Fan, Cu-pau) On differential equations with algebraic limit cycles.
- Čenčov, N. N. 5353: (with Frolov, A. S.) A Monte-Carlo method of determining integrals depending on a parameter.
- Cercignani, Carlo. 5573: Plane Poiseuille flow and Knudsen minimum effect.
- Ceremnyh, Ju. N. 1716: The behavior of the solution of the first boundary-value problem with zero boundary conditions for the general parabolic equation.
- Čerepanov, G. P. 3148: A class of exact solutions of a plane elastoplastic problem. 5401: On the buckling under tension of a membrane containing holes.
- Cerretelli, O. D. 3774: An integral analogue of Riemann's theorem on conditionally convergent series. 4000: Fourier series and metric properties of functions.
- Čerkaš, L. A. 3867: Analytic structure of solutions of the equation
- $$\frac{dy}{dx} = \left(\mu y + \sum_{i+j=n} a_{ij} x^i y^j \right) / \left(\mu x + \sum_{i+j=n} a_{ij} x^i y^j \right).$$
- Čerkasov, I. D. 4276: The method of separation in the theory of multidimensional Markov processes.
- Čerkasov, L. V. 3162: Stress waves on surfaces of viscous fluid. 5456: (with Abrašina, N. N.) Transient waves from periodic pressures in a fluid of finite depth.
- Černavskii, A. V. 733: The impossibility of a strictly double continuous partition of a homologous cube.
- Černikov, S. N. 1447: Systems of linear inequalities. 1448: Homogeneous linear inequalities. 5768: On Haar's theorem for infinite systems of linear inequalities.
- Černikov, V. V. 1585: On univalent functions with real coefficients.
- Černjavskii, I. Ja. 1556: A multiplicative integral in a topological group.
- Černous'ko, F. L. 5986: Resonance in an essentially non-linear system.
- Černyšev, G. N. 5404: On the action of concentrated forces and moments on an elastic thin shell of arbitrary shape.
- Čerškii, Ju. I. 1796: Two theorems on error estimation and some of their applications. 3916: Problems of mathematical physics reducing to the Riemann problem.
- Cesari, Lamberto. 1661: ★Asymptotic behavior and stability problems in ordinary differential equations. 1062: Functional analysis and periodic solutions of nonlinear differential equations. 3872: Branching of cycles of autonomous nonlinear differential systems.
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- Cess, Robert D. 1107: Unsteady low Prandtl number heat transfer for flow across a flat plate.
- Cetin, M. L. 3482: (with Krylov, V. Ju.) On games for automata.
- Chacko, V. J. 868: Testing homogeneity against ordered alternatives.
- Chadwick, P. 2187: Thermal damping of a vibrating elastic body.
- Chakraborti, P. K. 6466: An exact analytic solution for a cylindrical blast wave propagating in still air.
- Chaléat, Raymond. 411: Troisième approximation de la période d'un oscillateur non linéaire.
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- Challifour, J. L. 1172: (with Eden, R. J.) Holomorphy domains and asymptotic forms of scattering amplitudes and partial wave amplitudes. 2293: (with Eden, R. J.) Regge poles and branch cuts for potential scattering.
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- Chandrasekharan, K. 114: (with Narasimhan, Raghavan) The average order of arithmetical functions, and the approximate functional equation for a class of zeta-functions. 3605: (with Narasimhan, Raghavan) The approximate functional equation for a class of zeta-functions.

- Chang, C. C. 2438: Ordinal factorization of finite relations.
- Chang, Hsiieh-ming. 1667: On the stability of systems of differential equations with time lag.
- Chang, I-Des. 2230: On a singular perturbation problem in magneto-hydrodynamics.
- Chang, Kai-ming. 2228: On a problem in steady motion of an incompressible viscous fluid. 2229: Boundary problem of the stationary magnetohydrodynamics equations.
- Chang, Keng-ching. 6533: A proof of dispersion relations based on the theory of distributions.
- Chang, Li-chien. 876: Order statistics with invariant mean and variance.
- Chang, S. C. 1943: On a theorem of K. Shiraiwa.
- Chang, Tong. 2713: (with Ding, Shia-kui; Wang, Kan-ting; Ma, Ju-nien and Shun, Chia-lo) Definition of ellipticity of a system of second order partial differential equations with constant coefficients.
- Chang, Yung-shu. 407: (with Li, Kun-yuan and Wang, Mu-chiu) On the stability of motion in a finite time.
- Charatonik, J. J. 2433: Remarque à un travail de Z. Waraszkiewicz.
- Charnes, A. 2350: (with Cooper, W. W.) Programming with linear fractional functionals. 3448: (with Cooper, W. W.) Deterministic equivalents for optimizing and satisficing under chance constraints. 3449: (with Cooper, W. W. and Thompson, G. L.) Some properties of redundant constraints and extraneous variables in direct and dual linear programming problems.
- Charrueau, André. 1863: Sur les homographies et les antihomographies de l'espace projectif complexe. 4822: Sur diverses questions d'algèbre matricielle de la géométrie projective complexe.
- Chatterjee, S. K. 2662: Operational formulae for certain classical polynomials. I. 3845: Operational formulae for certain classical polynomials. II. 3846: Operational formulae for certain classical polynomials. III.
- Chatterjee, Arun Kumar. 2812: On WA -transforms of two variables. 3929: Some properties of WA -transform. 6089: A generalisation of the Stieltjes transform.
- Chatterjee, Shoutir Kishore. 2034: Simultaneous confidence intervals of predetermined length based on sequential samples.
- Chaudhuri, N. 4883: Contribution à la théorie des demi-groupes inversifs.
- Chaundy, T. W. 1732: (with McLeod, J. B.) On a functional equation. 3929: (with McLeod, J. B.) Eigenvalues in problems with spherical symmetry and an associated integral.
- Chawla, L. M. 3678: Some linear systems of matrix algebras. 5725: On diophantine equations defining equivalence relations over the integers. 5837: Invariance of groups of complexes of a group.
- Chehata, C. G. 202a: Embedding theorems for groups. 202b: Extension of partial endomorphisms of abelian groups. 4852: Embedding theorems for abelian groups.
- Chen, Chang-peng. 1707: Some criteria for hypoellipticity of partial differential equations.
- Chen, Jing-rui. 111: Improvement of asymptotic formulae for the number of lattice points in a region of three dimensions. 4799: The lattice-points in a circle.
- Chen, Kien-Kwong. 4009: On the convergence and summability of trigonometrical series and series of orthogonal polynomials.
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- Chen, L. H. 5452: (with Schweikert, D. G.) Sound radiation from an arbitrary body.
- Chen, M. M. 2182: (with Hsu, P. T. and Pian, T. H. H.) Impulsive loading of rigid-plastic curved beams.
- Chen, Paul P. 1326: An algorithm for stochastic control through dynamic programming techniques.
- Chen, Yung-Ming. 2795: Cesàro summability of successively differentiated series of a Fourier series and its conjugate series.
- Cheney, E. W. 2088: (with Loeb, H. L.) On rational Chebyshev approximation.
- Cheney, P. W. 976: (with Keir, Y. A. and Tannenbaum, M.) Division and overflow detection in residue number systems.
- Cheng, Hung. 4570: Dispersion relation for the Regge parameters. 3320: (with Sharp, David) On the dynamical determination of the π Regge pole parameters.
- Cheng, Ping = Cên, Pin'.
- Cheng, Shao-Lien = Cheng, Shaw-Iian.
- Cheng, Shiao-Iian. 6341: (with Tao, Tsung-ying) The estimation of regression coefficients of time series with multidimensional stationary random disturbances.
- Cheng, Ts'eng-t'ung. 824: Weak convergence of measures and strong Markov processes.
- Cherepanov, G. P. = Čerepanov, G. P.
- Chern, Shing-Shen. 4180: Geometry of a quadratic differential form. 5196: Pseudo-Riemannian geometry and the Gauss-Bonnet formula.
- Chernyshev, G. N. = Černyšev, G. N.
- Chew, Geoffrey F. 1131: S -matrix theory of strong interactions without elementary particles. 2299: Artificial singularity in the N/D equations of the new strip approximation. 2300: Self-consistent S matrix with Regge asymptotic behavior. 4603: Strong-interaction S -matrix theory without elementary particles.
- Ch'i, Min-yu. 6031: On the Cauchy problem for second order hyperbolic equations in two variables with initial data on the parabolic degenerating line.
- Chien, Yu-mai = Čajan', Ju-tai.
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- Chikawa, K. 4782: (with Iséki, K.; Kusakabe, T. and Shibamura, K.) Correction to "Computation of cyclic parts of Steinhaus problem for power 5".
- Chilap, A. Ia. = Čilap, A. Ja.
- Chisholm, J. S. R. 6585: Relativistic scalar products of γ matrices.
- Choczewski, B. 3958: On differentiable solutions of a functional equation.
- Choda, Hisashi. 601: (with Echigo, Mario) On theorems of Korovkin. 600: (with Nakamura, Masahiro) Multipliers of Banach algebras.
- Chogoshvili, G. = Čogošvili, G. S.
- Chomsky, N. 2371: (with Schützenberger, M. P.) The algebraic theory of context-free languages.
- Chou, Yu-lin. 5053: Nonlinear partial differential equations.
- Chow, Chuen-Yen. 4456: (with Uberoi, Mahinder S.) Instability of a current-carrying fluid jet issuing from a nozzle.
- Chow, Y. S. 807: Convergence theorems of martingales.
- Chowla, Paromita. 4791: Some diophantine equations in quadratic number fields.
- Chowla, S. 115: On Gaussian sums. 4790: Remarks on class-invariants and related topics. 3601: (with Bateman, P. T.) Some special trigonometrical series related to the distribution of prime numbers.
- Chu, T. S. 4492: (with Karp, S. N.) The field of a dipole above an infinite corrugated plane.
- Chuard, Jules. 2074: Sur le rendement des obligations remboursables au pair à échéance fixe.
- Chung, Kai Lai. 816: On the boundary theory for Markov chains.
- Chung, Kyung Tae. 1280: Einstein's connection in terms of g^{ij} .
- Chung, P. M. 2216: Chemically frozen boundary layer with surface reactions behind a strong moving shock.
- Church, P. T. 4245: Differentiable open maps on manifolds. 5240: (with Hemmingsen, E.) Light open maps on n -manifolds. III.
- Ciafaloni, M. 5541: Levinson's theorem and Regge poles.
- Clampa, Salvatore. 4195: Distanze non necessariamente triangolari.
- Cicco, John De. See De Cicco, John.
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- Cigler, Johann. 3019: Über die Grenzverteilung von Summen Markowscher Ketten auf endlichen Gruppen. I. 3020: Über die Grenzverteilung von Summen Markowscher Ketten auf endlichen Gruppen. II.
- Čilap, A. Ja. 6012: (with Skvortsov, E. V. and Farzan, B. Kh.) Solution of some problems of adjoining by reduction to the generalized Riemann problem.
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- Cooper, Leon. 2345: Location-allocation problems. 4695: (with Krolak, P.) An extension of Fibonacci search to several variables.
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- Dharmadhikari, S. W. 2001a: Functions of finite Markov chains. 2001b: Sufficient conditions for a stationary process to be a function of a finite Markov chain.
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- Dikii, G. P. 1084: (with Tarapov, I. E.) Some "self-reproducing" magnetohydrodynamic problems with axial symmetry. 2232: (with Tarapov, I. E.) Some problems of steady-state magnetohydrodynamics with axial symmetry.
- Dikshit, G. D. 4007: A summability factor theorem on the absolute Riesz summability of Fourier series.
- Dikshit, H. P. 2794: The Nörlund summability of the conjugate series of a Fourier series. 4008: On the absolute Nörlund summability factors of a Fourier series.
- Dimovski, Ivan. 545: Uniqueness of the Mikusiński field.
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- Dine, C. Peter Van. See Van Dine, C. Peter.
- Ding, Shiao-kual. 2713: (with Wang, Kan-ting; Ma, Ju-nien; Shun, Chia-lo and Chang, Tong) Definition of ellipticity of a system of second order partial differential equations with constant coefficients.
- Dinghas, Alexander. 5919: Über das Anwachsen einiger Klassen von subharmonischen und verwandten Funktionen.
- Dionne, Philippe-A. 472: Sur les problèmes de Cauchy hyperboliques bien posés.
- Dirac, G. A. 1939: Extensions of Menger's theorem. 5251: On the four-colour conjecture.
- Dirac, P. A. M. 1198: Particles of finite size in the gravitational field. 3713: A remarkable representation of the $3+2$ de Sitter group.
- Djakin, V. A. 2817: (with Prudnikov, A. P.) On the theory of the operational calculus stemming from the Bessel equation.
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- Divakaran, P. P. 1143: Equivalence theorems and point transformations in field theory.
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- D'jakonov, E. G. 2120: Method of nets for the solution of parabolic equations of order $2m$ with separable variables. 4371: On the application of difference schemes with splitting operators to hyperbolic equations with variable coefficients.
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- Djeković, Dragomir Ž. = Đoković, D. Ž.
- Dlab, V. 81: General algebraic dependence relations.
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- Dobbertin, Rolf. 4615: Sur l'application de la méthode des fonctions de Green à quelques problèmes de la mécanique statistique quantique.
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- de Doelder, P. J. 6087: On some integrals of the trilogarithm type.
- Doi, Koji. 1443: Some remarks on the ring of endomorphisms of an Abelian variety.
- Doičinov, Doičin. 725: †Uniform imbedding of spaces in Euclidean and Hilbert spaces.
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- problem. 373: (with Mitrinović, Dragoslav S.) Addenda to a work of Kamke. VII. Bibliographical note. 1729: (with Mitrinović, Dragoslav S.) Sur certaines équations fonctionnelles. 5055: (with Mitrinović, Dragoslav S.) Sur une équation fonctionnelle.
- Dokšević, A. I. 3112: Some inequalities in the problem of the rotation of a heavy rigid body about a fixed point.
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- Donaldson, C. duP. 5447: (with Sullivan, R. D. and Hayes, W. D.) Linearized pressure distributions with strong supersonic entropy layers.
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- Dougherty, J. P. 1258: The conductivity of a partially ionized gas in alternating electric fields.
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- Drăgăș, Pavel. 661: Suites de Laplace périodiques qui se correspondent par parallélisme.
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- Dragoni, Giuseppe Scorza. See Scorza Dragoni, Giuseppe.
- Dragos, Lazare. 1062: Mouvement en espace d'un fluide compressible, parfaitement conducteur. 3166: Sur le mouvement d'un fluide visqueux dans un tube élastique.
- Drasin, M. P. 5776: (with Haynsworth, E. V.) A theorem on matrices of 0's and 1's.
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- Drăgan, K. = Drăgan, C.
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- Droždinov, Ju. N. 2727: The stabilization of the solution of the Cauchy problem for a parabolic equation.
- Drummond, I. T. 6528: Regge cuts and three-particle states in a non-relativistic model.
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- Dueng, Jen-zhu = Tung, Chin-chu.
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- Dulmage, A. L. 4224: (with Mendelsohn, N. S.) Two algorithms for bipartite graphs. 6375: (with Mendelsohn, N. S.) On the inversion of sparse matrices. 6635: (with Mendelsohn, N. S.) Matrices associated with the Hitchcock problem.
- Dunkin, V. V. 3794: On the quasi-harmonic and quasi-analytic differentials of Schottky-Ahlfors.
- Dundučenko, L. E. 310: (with Kas'janjuk, S. A.) Some properties of analytic functions with positive real part in a circular annulus.
- Dundučenko, L. O. = Dundučenko, L. E.
- Dunham, B. 5357: (with Fridshal, R. and Sward, G. L.) A non-heuristic program for proving elementary logical theorems.
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- Dusehek, Adalbert. 11: ★Vorlesungen über höhere Mathematik. Bd. I: Integration und Differentiation der Funktionen einer Veränderlichen. Anwendungen. Numerische Methoden. Algebraische Gleichungen. Unendliche Reihen. 12: ★Vorlesungen über höhere Mathematik. Bd. II: Integration und Differentiation der Funktionen von mehreren Veränderlichen. Lineare Algebra. Tensorfelder. Differentialgeometrie. 13: ★Vorlesungen über höhere Mathematik. Bd. III: Gewöhnliche und partielle Differentialgleichungen. Variationsrechnung. Funktionen einer komplexen Veränderlichen. 14: ★Vorlesungen über höhere Mathematik. Bd. IV: Integralgleichungen. Laplacetransformation. Randwertprobleme bei gewöhnlichen Differentialgleichungen. Grundsätze und Randwertaufgaben der Potentialtheorie.
- Dusumbetov, A. 117: An elementary proof of the asymptotic law for the distribution of prime numbers. 2491: An elementary proof of the asymptotic law of the distribution of primes in an arithmetic progression.
- Dvofák, Jan. 3132: Stresses in a plate with a square grid of circular openings.
- Dvoretzky, Aryeh. 6104: On series in linear topological spaces.
- Dwinger, Ph. 1395: Remarks on the field representations of Boolean algebras.
- Dwivedi, Shankar Hari. 1601: Proximate orders and distribution of α -points of meromorphic functions.
- Dyatlov, I. T. = Džatlov, I. T.
- Dyer, E. 2987: (with Lashof, R.) A topological proof of the Bott periodicity theorems.
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- Dyk Thin', Lai. See Lai Dyk Thin'.
- Dynin, A. S. 5144: Singular operators of arbitrary order on a manifold.
- Dynkin, E. B. 3023: ★Théorie des processus markoviens. 4278: Optimal choice of the stopping moment of a Markov process. 4279: The natural topology and excessive functions connected with a Markov process. 244: (with Oniščik, A. L.) Compact global Lie groups.
- Dyko, A. L. 4448: Solution of von Mises' equation in boundary-layer theory.
- Dyson, Freeman J. 1217: (with Mehta, Madan Lal) Statistical theory of the energy levels of complex systems. IV. 1218: (with Mehta, Madan Lal) Statistical theory of the energy levels of complex systems. V.
- Džafarli, G. M. 1769: (with Agaev, G. N.) On a class of multiplicative orthonormal systems of functions. 4002: (with Vilenkin, N. Ja. and Agaev, G. N.) On the theory of multiplicative orthonormal systems of functions.
- Džafarov, A. S. 573: Inequalities with weight for entire functions of finite order in the norm of a generalized Orlicz space. 1752: Some approximation properties of harmonic functions. 3756: Imbedding theorems in the norms of the space $L_{p,p}^{\infty}$. 3826: A generalization of inequalities of Ehrenpreis, Malgrange, Hörmander and Rosenbloom on entire functions of exponential type. 3802: (with Ibragimov, I. I.) A bound for a differential operator in the class of entire functions of finite degree.
- Džahua, A. B. 2760: Summation of double numerical series by Riemann's method.
- Džanelidze, G. Ju. 2381: (with Blekhan, I. I.) On the stability of vibrationally linearized nonlinear systems.
- Džansetov, K. K. 5138: Some properties of special ϕ -regular rings.
- Džanelidze, G. Ju. = Džanelidze, G. Ju.
- Džikariani, A. V. 6280: On the rapidity of convergence of the approximate method of Ritz.
- Džubinskij, Isyder. 1572: Sur le minimum du diamètre de la fonction transformant la région en cercle unité.
- Džadyk, V. K. 313: On the approximation of continuous functions in closed regions with corners and on a problem of S. M. Nikol'skij. I. 4937a: Theorems on the transformation and approximation of analytic functions. 4937b: On the theory of approximation of continuous functions in closed regions and on a problem of S. M. Nikol'skij.
- Džerbajjan, M. M. 0092: Integral transformations generated by generalized functions of Mittag-Leffler type.
- Džuraev, A. 1691: A general linear boundary-value problem for the equation $\Delta u + \lambda \phi(x, y)u = 0$. 2711: The Poincaré problem for a second-order elliptic equation with singular coefficients. 2712: A general boundary-value problem for a second-order elliptic equation with non-analytic coefficients. 6015: General boundary-value problems for elliptic equations with non-analytic coefficients.
- Džvarčivili, A. G. 2597: On a singular integral.
- Daygadlo, Zbigniew. 1068: Self-excited vibration of a cylindrical shell of finite length in supersonic flow.
- E, En'-ten' = Hsieh, Yen-chien.
- Eason, George. 1026: Propagation of waves from spherical and cylindrical cavities. 2188: Thermal stress in anisotropic cylinders.
- Eastham, M. S. P. 326: On harmonic continuation. 453: An eigenvalue problem with the parameter in the boundary condition. 3822: Eigenvalue problems with the parameter in the boundary condition.
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- Ébeling, V. 3238: (with Klimontovich, Yu. L.) Hydrodynamic description of the motion of a charged particle in a weakly ionized plasma.
- Ebert, Rudolf. 360: (with Schäfer, Friedrich Wilhelm and Groh, Helmut) Ein Verfahren zur Berechnung des charakteristischen Exponenten der Mathiesschen Differentialgleichung. II.
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- Eckerman, Jerome. 2214: (with Birkhoff, Garrett) Binary collision modeling.
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- Eckmann, Beno. 1958: Homotopie und Homologie. 3681: (with Hilton, P. J.) Group-like structures in general categories. II. Equalizers, limits, lengths. 3682: (with Hilton, P. J.) Group-like structures in general categories. III. Primitive categories. 4230: (with Hilton, P. J.) A natural transformation in homotopy theory and a theorem of G. W. Whitehead.
- Eckstein, Martin. 1282: Die Hilleschen Grenzkurven in einem besonderen Fall des eingeschränkten Vierkörperproblems bei verschiedenen Werten der endlichen Massen.
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- Eden, Richard J. 1167: Complex variable theory and elementary particle physics. 2293: (with Challifour, J.) Regge poles and branch cuts for potential scattering. 1172: (with Challifour, J. L.) Holomorphy domains and asymptotic forms of scattering amplitudes and partial wave amplitudes. 1109: (with Polkinghorne, J. C.; Källén, G. and Sakurai, J. J.) ★Lectures in theoretical physics. Vol. 1.
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- Edrei, Albert. 3804: Meromorphic functions with values that are both deficient and asymptotic.
- Edwards, C. H., Jr. 732: Open 3-manifolds which are simply connected at infinity. 1926: Cartesian factorization of compact 3- and 4-manifolds.
- Edwards, D. A. 570: A class of topological Boolean algebras.
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- Effros, Edward G. 1847: Order ideals in a C^* -algebra and its dual.

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- Egorov, I. P.** 5201: Riemannian spaces of the first three lacunary types in the geometric sense.
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- Emel'janov, S. V.** = Emel'janov, S. V.
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- Frivaldsky, Sándor. 6124: Some remarks on Sobolev's theory of distributions.
- Früberg, Carl-Erik. 4396: ★Textbook in numerical analysis.
- Froda-Schechter, M. 3554: (with Baláz, M.; Borjan, D. and Hamburg, P.) Opérateurs dans des ensembles de parties.
- Frøese, Charlotte. 2111: On solving $y'' = fy + g$ with a boundary condition at infinity.
- Frühlich, A. 1436: The discriminants of relative extensions and the existence of integral bases.
- Frühlich, H. 1208: Space-time reflexions, isobaric spin and the mass ratio of bosons. 1209: (with Terreaux, Ch.) Isobaric spin algebra.
- Frolík, Zdeněk. 5224: A generalization of realcompact spaces. 5225: A characterization of topologically complete spaces in the sense of E. Čech in terms of convergence of functions.
- Frolov, A. S. 5353: (with Čenev, N. N.) A Monte-Carlo method of determining integrals depending on a parameter.
- Fronsdal, Christian. 1186: On complex singularities. 3334: Group theory and applications to particle physics. 3317: (with Norton, R. E. and Mahanthappa, K. T.) More integral representations for scattering amplitudes with complex singularities. 6539: (with Behrends, R. E.; Dreitlein, J. and Lee, W.) Simple groups and strong interaction symmetries.
- Frontera Marqués, Bartolomé. 63: A numerical function on finite lattices which vanishes on reducible lattices.
- Fryde, Matthew M. 22: Wacław Sierpiński—mathematician.
- Frye, Graham. 2295: (with Warnock, Robert Lee) Analysis of partial-wave dispersion relations.
- Fubini, S. 1187: Topics in dispersion phenomenology. 1189: (with Amati, D. and Stanghellini, A.) Asymptotic properties of scattering and multiple production.
- Fuchs, Klaus. 1163: Über einige Probleme in der Theorie der Symmetriecharaktere (Ergänzung).
- Fuchs, L. 204: Note on factor groups in complete direct sums.
- Fuchs, N. H. 1151: High-energy behavior of a certain class of scattering amplitudes in perturbation theory.
- Fuchs, W. H. J. 3805: (with Hayman, W. K.) An entire function with assigned deficiencies.
- Fuchshuber, Roland. 3206: Reihendarstellung axialsymmetrischer Geschwindigkeitsskorrekturen und Strahldeformationen bei Windkanälen für den kompressiblen Unterschallbereich.
- Fujii, Yasunori. 1145: (with Uehara, Masayuki) Consequences of a simple model for two-channel reactions in field theory.
- Fujie, Tatsuo. 293: A few applications of extremal length.
- Fujimoto, Mitsuaki. 6619: Magneto-gravitational theory of galaxies. II.
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- Fujita, S. 4611: Approach to equilibrium of a many-particle system.
- Fuks, B. A. 4945: ★Introduction to the theory of analytic functions of several complex variables.
- Fukuchi, Mitsuru. 1260: General theory of superexchange interaction. I, II.
- Fukuda, Nobuyuki. 4594: The stability of Hartree-Fock solutions and of collective motion.
- Fulkerson, D. R. 5621: Flows in networks. 4819: (with Ryser, H. J.) Traces, term ranks, widths and heights.
- Fuller, A. T. 5636: Notes on the random telegraph signal as an approximation to Gaussian white noise. 6664: Study of an optimum non-linear control system.
- Fuller, R. W. 1150: (with Harris, S. M. and Slaggie, E. Leo) S -matrix solution for the forced harmonic oscillator.
- Fulton, Thomas. 3321: Resonances in strong interaction physics.
- Funk, Paul. 2885: ★Variationsrechnung und ihre Anwendung in Physik und Technik.
- Furlan, G. 4535: (with Budini, P.) High-energy behaviour of electro-dynamical cross-sections. 5542: (with Deser, S. and Mahoux, G.) Renormalization group and Regge behaviour.
- Furuya, Shigeru. 397: (with Nagumo, Jin-ichi) A survey on non-linear oscillations.
- Fuster, Rafael Aguiló. See Aguiló Fuster, Rafael.
- Futterman, Walter I. 3439: Dispersive body waves.
- Gabal, Hyman. 5746: On the discrepancy of certain sequences mod 1.
- Gabanov, R. 5658: (with Kirillova, F. M.) Optimal processes in related systems. 6666: (with Kirillova, F. M.) Optimal control associated with systems of discrete type.
- Gabovič, E. 2506: On Archimedean ordered Ω -groups.
- Gabriel, K. R. 6345: Analysis of variance of proportions with unequal frequencies.
- Gadžiev, A. D. 518: The asymptotic value of the approximation of derivatives by the derivatives of a family of linear operators.
- Gaeta, Federico. 417: Geometry of the phase space. 1915: Some observations on the effective realization of the program of Chern in integral geometry.
- Gafarian, A. V. 6306: (with Ancker, C. J., Jr.) Queuing with reneging and multiple heterogeneous servers.
- Gagen-Torn, L. N. 933: Solvability by the Ritz method for functionals of the theory of plasticity.
- Gahov, F. D. 6094: ★Boundary-value problems.
- Ganev, A. T. 2532: Derivations of reduced free algebras.
- Gál, I. S. 1422: The asymptotic distribution of primes.

- Gale, David. 2915: Neighborly and cyclic polytopes.
- Galickil, V. M. 1234: (with Vaks, V. G. and Larkin, A. I.) Collective excitations with non-zero angular momentum pairing.
- Gallimov, K. Z. 2109: Application of the variational principle of admissible changes of state of tension to the non-linear theory of shallow shells.
- Galindo, A. T. 614: On a theorem of Albertoni, Bocchieri and Loinger on the random and exactly uniform character of Liouville densities.
- Gall, Pierre Le. *See* Le Gall, Pierre.
- Gallarati, Dionisio. 4879: Un'osservazione sopra i semigruppi.
- Galletto, Dionigi. 5774: Intorno ad alcuni teoremi sulle matrici quadrate.
- Gal'pern, S. A. 2720: The Cauchy problem for the equation of S. L. Sobolev.
- Gameckil, A. F. 5731: The optimality of Voronoi's lattice of first type among lattices of first type of arbitrary dimension.
- Gandhi, J. M. 1431: Congruences for $p_n(n)$ and Ramanujan's τ function.
- Gandler, M. 496: (with Golosova, E. and Naftalevič, A.) On the convergence of factorial series.
- Gandolfo, A. 3896: Parametrization in the large of solutions of second-order differential equations. 4973: Parametrization in the large of the solutions of second-order systems of differential equations.
- Ganea, T. 761: (with Hilton, P. J. and Peterson, F. P.) On the homotopy-commutativity of loop-spaces and suspensions.
- Ganelius, Tord. 511: ★The remainder in Wiener's tauberian theorem.
- Gantmaher, F. R. 1665: (with Alzerman, M. A.) Stability in a linear approximation of the periodic solution of a system of differential equations with discontinuous right sides.
- Gansburg, I. M. 2764: Extension of an asymptotic formula of A. F. Timan to a class of functions with a given modulus of continuity.
- Gaposkin, V. F. 1810: (with Kadec, M. I.) Operator bases in Banach spaces.
- Garal'nik, M. S. 2535: Locally nilpotent subgroups of periodic linear groups.
- Garcia, Godofredo. 2146: On the law of variation of mass and intrinsic energy in the classical theory of Newton. 3430: The n -body problem with variable mass, considering the perihelion correction. 3431: The n -body problem with variable mass in the theory of general relativity resolved for the classical theory. 6420: On the absolute form of the equations of dynamics for the general case of variable mass.
- Garcia de Viedma Alonso, Luis. 177: Structure of rings with partial units.
- Gardner, Clifford S. 2310: Bound on the energy available from a plasma. 3249: (with Keller, Joseph B.) The field of a pulsed dipole in an interface.
- Gardner, G. H. F. 4425: Extensional waves in fluid-saturated porous cylinders.
- Garg, K. M. 1545: On nowhere monotone functions. III. (Functions of first and second species). 2589: Applications of Denjoy analogue. II. Local structure of level sets and Dini derivatives. 2590: Applications of Denjoy analogue. III. Distribution of various typical level sets.
- Garkavi, A. L. 6076: On best approximation by the elements of infinite-dimensional subspaces of a certain class.
- Garnier, René. 364: ★Cours de mathématiques générales (analyse et géométrie). Tome IV: Équations différentielles; équations linéaires aux dérivées partielles; énoncés de problèmes d'examen. 6162: Sur le problème de Plateau pour les quadrilatères gauches ayant un sommet à l'infini.
- Garofalo, A. M. 2696: The pseudo-integral of a system of differential equations.
- Garrido, L. M. 2262: (with Sancho, F. J.) Approximate validity of the adiabatic theorem of quantum mechanics.
- Garsia, Adriano M. 1613: A note on the mean value property.
- Gart, John J. 6347: A median test with sequential application.
- Gaschütz, Wolfgang. 5817: (with Lubeseder, Ursula) Kennzeichnung gesättigter Formationen.
- Gallimov, G. M. 1569: A uniqueness theorem for Dirichlet series.
- Gasiorowicz, S. G. 2258: (with Case, K. M.) Can massless particles be charged?
- Gaskell, T. 1229: The collective treatment of many-body systems. III.
- Gasparini, Ida Cattaneo. *See* Cattaneo Gasparini, Ida.
- Gastinel, N. 3097: Sur le meilleur choix des paramètres de sur-relaxation (Procédé de Peaceman-Rachford).
- Gazymov, M. G. 1646: Analytic properties of the spectral function of the self-adjoint Sturm-Liouville operator. 2673: On the sum of the differences of the eigenvalues of two self-adjoint operators. 4978: (with Levitan, B. M.) On the sum of the differences of the eigenvalues of two singular Sturm-Liouville operators.
- Gatland, I. R. 2295: (with Moffat, J. W.) Singularities in the angular momentum plane.
- Gatto, R. 6538: Possible connection among parity, strangeness and isotopic spin.
- Gauthier, Luc. 2153: Phénomènes non linéaires en mécanique classique.
- Gaver, D. P., Jr. 3455: Operating characteristics of a simple production, inventory-control model.
- Gavrilov, V. I. 2633: Boundary behaviour of functions meromorphic in the unit circle.
- Gavrilova, R. I. 5937: (with Berlyand, O. S. and Prudnikov, A. P.) ★Tables of integral error functions and Hermite polynomials.
- Gavrilovič, M. 6662: (with Petrovič, R. and Šiljak, D.) Adjoint method in the sensitivity analysis of optimal systems.
- Gavurin, M. K. 6313: Approximation of a function with a stochastic argument.
- Gawroński, Ryszard. 6412: The application of the analog computer to solutions of some non-linear integral and integro-differential equations.
- Gaziz, D. C. 4432: (with Tadjbakhsh, I. and Toupin, R. A.) The elastic tensor of given symmetry nearest to an anisotropic elastic tensor.
- Gazzy, E. M. El. *See* El Gazzy, E. M.
- Gécseg, F. = Gécseg, F.
- Gécseg, F. 2460: On certain classes of semi-modules and modules.
- Gee, C. 3165: (with Tien, C. L.) Hypersonic viscous flow over a sweat-cooled flat plate.
- Geffen, Nima. 5476: Magnetogasdynamic flows with shock waves.
- Geffroy, J. 4258: Sur l'aspect séquentiel de la convergence du milieu d'un échantillon.
- Gegella, T. G. 2164: Some fundamental boundary-value problems in elasticity theory in space. 4033: Composition of singular kernels.
- Gehr, L. 596: (with Foias, C.) Über die Weylsche Vertauschungsrelation.
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- Gelhtman, M. M. 1647: On the spectrum of a non-selfadjoint differential operator of even order. 3933: On the principle of limiting amplitude.
- Geldel'man, R. M. 669: Conformal bending of two-parameter families of spheres.
- Geiger, J. 3246: (with Boersch, H. and Kluge, W.) Anwendung der Sommerfeldschen Zylinderwelle auf eindimensionale scharfkantige Amplituden- und Phasenobjekte.
- Geisberg, S. 2752: Inclusion of bounded fields of summability. 2753: Analogues of theorems of Mazur and Orlicz for absolute summability.
- Geisler, Pamela A. 5601: Planetary orbits in general relativity.
- Geisser, Seymour. 6343: Multivariate analysis of variance for a special covariance case.
- Gel'fand, I. M. 1694: Some questions of analysis and differential equations. 3921: Some problems in the theory of quasilinear equations. 1910: (with Berezin, F. A.) Some remarks on the theory of spherical functions on symmetric Riemannian manifolds. 1538: (with Graev, M. I.) The Plancherel formula for the group of unimodular matrices of second order with elements in a locally compact field. 2585: (with Graev, M. I.) Irreducible unitary representations of the group of second-order unimodular matrices with elements in a locally compact field. 5864: (with Graev, M. I.) Representations of the group of second-order matrices with elements in a locally compact field and special functions on locally compact fields. 2586: (with Pjateckil'-Šapiro, I. I.) Unitary representations in the space G/Γ , where G is a group of real matrices of order n and Γ is a subgroup of integral matrices. 1840: (with Pjateckil'-Šapiro, I. I.) Theory of representations and theory of automorphic functions.

- Gelf'er, S. A. 1551: The variation of multivalent functions. 1552: On the coefficient problem for p -valent functions.
- Gellig, A. H. 406: Stability of motion of systems without a unique equilibrium position.
- Gell-Mann, M. 3329: (with Goldberger, M. L.; Low, F. E. and Zachariasen, F.) Elementary particles of conventional field theory as Regge poles. II.
- Gel'man, I. V. 4091: Equivalence of some unbounded operators in Banach space. 5555: (with Dobrin, L. A.) Approximate analysis of a class of linear automatic control processes.
- Gemignani, Giuseppe. 141: Digressioni sui campi ordinati.
- Genčev, T. G. 1715: On ultraparabolic equations.
- Gentry, R. 6564: (with Theimer, O.) New method for determining the thermodynamic functions of dense gases and plasmas.
- Geoghegan, Randolph R. M. 889: (with Walsh, John E.) A method of emphasizing specified alternatives in sequential and nonsequential tests for symmetry about zero.
- Georgiev, G. = Gheorghiev, Gh.
- Georgiu, Oktavian Em. = Gheorghiu, Oct. Em.
- Gercenstein, M. E. 6484: (with Tatarskiĭ, V. I.) Propagation of waves in a medium with strong fluctuation of the refractive index.
- Gergen, J. J. 6065: (with Drossel, F. G. and Purcell, W. H., Jr.) Convergence of extended Bernstein polynomials in the complex plane.
- Germain, Jean-Pierre. 5421: Sur la théorie formelle des houles longues.
- Germain, P. 4408: ★Mécanique des milieux continus. 1094: (with Soubbarama-ver) Sur un schéma d'onde de choc en Magnétodynamique des fluides.
- Germansky, B. 2436: The induction axiom and the axiom of choice.
- Gernet, G. E. 1120: Efficiency of the method of the test potential for solving the Schrödinger equation.
- Geronimus, Ja. L. 1755: Some properties of functions of class L_p .
- Gersch, Will. 2359: (with Ash, Robert) Multiple signal counting.
- Gershenson, Hillel H. 1957: Relationships between the Adams spectral sequence and Toda's calculations of the stable homotopy groups of spheres.
- Gersonide, Léon. 18c: Commentaire des introductions au livre d'Euclide (extraits).
- Gerstenhaber, Murray. 100: The 152nd proof of the law of quadratic reciprocity.
- Gertsenshtein, M. E. = Gercenstein, M. E.
- Geshkenbein, B. V. = Gelkenbein, B. V.
- Gelkenbein, B. V. 3312: (with Ioffe, B. L.) Limitations on the three particle vertex part.
- Getoor, R. K. 3018: (with Blumenthal, R. M. and McKean, H. P., Jr.) A supplement to "Markov processes with identical hitting distributions".
- Geurst, J. A. 3194: Some investigations of a linearized theory for unsteady cavity flows.
- Ghate, P. B. 4631: (with Huntington, H. B.) New technique for calculating correlations for vacancy diffusion.
- Ghelandoni, G. 4368: Una particolare applicazione del metodo di Runge-Kutta alla determinazione di un integrale di una equazione differenziale lineare, di ordine n , verificante n condizioni lineari assegnate. 4974: Sull problema di valori al contorno per l'equazione differenziale $y'' = f(x, y, y')$.
- Gheorghiev, Gh. 3153: Sur certaines liaisons intrinsèques entre les lignes de courant et la quadrique de déformation. 4156: (with Popa, I.) La géométrie projective différentielle de quelques variétés equiparamétriques. IV.
- Gheorghiu, Oct. Em. 674: Geometric objects of second class with respect to a non-holonomic projective group. 1726: Über eine Klasse von Funktionalgleichungssystemen.
- Gherman, Oliviu. 3258: La polarisation des ondes électromagnétiques à la surface de séparation de deux milieux.
- Ghermanescu, M. M. 488: Sur la fonction $\sigma(u)$ de Weierstraas.
- Ghizzetti, Aldo. 4996: Alcuni criteri sufficienti di stabilità per gli integrali di un'equazione differenziale lineare omogenea del 2° ordine.
- Ghori, Q. K. 985: Equations of motion of a system with nonlinear non-holonomic constraints.
- Ghosh, N. N. 5594: A note on wave solution of Einstein's unified field theory.
- Ghosh, P. K. 3079: Note on the remainder term in a certain type of quadrature formulae.
- Ghosh, S. P. 4330: Optimum stratification with two characters.
- Giambiagi, J. J. 3326: (with Bollini, C. G.) Regge trajectories for the square-well potential.
- Giannesini, F. 3834: (with Rouita, J. P.) ★Tables des coefficients du binôme et des factorielles. C_n^p , n variant de 1 à 100, 10 chiffres significatifs; $n!$, n variant de 1 à 1775, 20 chiffres significatifs.
- Gibson, J. E. 1327: (with Johnson, C. D.) Singular solutions in problems of optimal control.
- Gierl, Anton. 254: Über das Hausdorffsche Mass gewisser Punktmengen in der Ziffertheorie.
- Giese, J. H. 5422: Partially constrained impinging jets. 6099: An integral equation occurring in a problem of subsidence.
- Gihman, I. I. 789: On some limit theorems for conditional distributions and on problems of mathematical statistics connected with them.
- Gilbert, Elmer G. 3471: Controllability and observability in multi-variable control systems.
- Gilbert, R. P. 5922: Poisson's equation and generalized axially symmetric potential theory. 5923: On generalized axially symmetric potentials.
- Gilbert, Richard C. 1533: Some characterizations of absolute continuity. 1853: (with Kramer, Vernon A.) Trace formulas for a perturbed operator.
- Giles, William B. 4895: On the algebra of representative functions of a Lie algebra.
- Gill, A. E. 2202: (with Batchelor, G. K.) Analysis of the stability of axisymmetric jets.
- Gillman, Leonard. 6120: Countably generated ideals in rings of continuous functions.
- Gilmer, Robert W. = Gilmer, Robert W., Jr.
- Gilmer, Robert W., Jr. 3653: On a classical theorem of Noether in ideal theory. 3654: Rings in which the unique primary decomposition theorem holds. 4828: Finite rings having a cyclic multiplicative group of units. 5782: Commutative rings containing at most two prime ideals.
- Gilmore, P. C. 966: An abstract computer with a lisp-like machine language without a label operator.
- Gindikin, S. G. 240: (with Karpelevič, F. I.) Plancherel measure for symmetric Riemannian spaces of non-positive curvature.
- Gindler, H. A. 1833: (with Taylor, A. E.) The minimum modulus of a linear operator and its use in spectral theory.
- Ginibre, Jean. 3744: ★Wigner-Eckart theorem and simple Lie groups.
- Ginsburg, Seymour. 2138: (with Rice, H. Gordon) Two families of languages related to ALGOL.
- Ginsburg, Theo. 4347: The conjugate gradient method. 6462: Prandtl-Meyer-Expansion in rotationsymmetrischer Strömung.
- Ginsburg, I. F. 5522: Nonsymmetric ultraviolet asymptotic behavior of higher-order Green's functions in renormalized field theory.
- Ginsburg, V. L. 4491: ★Propagation of electromagnetic waves in plasma. 6485: (with Eidman, V. Ya.) Radiation reaction in the case of media with negative absorption.
- Gionea, Ecst Vişinescu. See Vişinescu Gionea, Ecst.
- Giri, N. 6331: (with Kiefer, J. and Stein, C.) Minimax character of Hotelling's T^2 test in the simplest case.
- Girifalco, L. A. 2741: (with Behrendt, D. R.) Mathematics of diffusion-controlled precipitation in the presence of homogeneously distributed sources and sinks.
- Girsanov, I. G. 4274: Some topologies connected with a Markov process.
- Girsovič, M. V. 6171: Constructions by one straightedge on the Lobachevsky plane. 6172: On conditions for effecting second-degree constructions in the Lobachevsky plane using only a ruler.
- Givenc, Samuel M. 4288: A taxicab problem with time-dependent arrival rates.
- Gjelsvik, A. 2183: (with Bodner, S. R.) Buckling of an elastic plastic cylinder subjected to external pressure and heating.
- Gladyshev, E. G. 1986: Periodically and semi-periodically correlated random processes with continuous time.

- Glaeser, G. 4166: Multiplicateurs rugueux des fonctions différentiables et synthèse spectrale.
- Glansdorff, P. 2317: Solution of the Boltzmann equations for strong shock waves by the two-fluid model.
- Glashow, S. L. 3549: Spontaneous breakdown of octet symmetry. 4580: (with Muraikin, M.) Coupling-constant sum rules.
- Glasser, Gerald J. 864: On estimators for variances and covariances.
- Glauber, Roy J. 6498: The quantum theory of optical coherence.
- Glavas, Chr. B. 1862: On geometrical equivalence and on a certain group of plane curves. 2890: The partition theorem of plane curves generalized with its geometrical interpretation.
- Glebov, E. P. 4975: (with Potapenko, A. A.) On a method of successive approximations.
- Glicksberg, I. 1943: On convex hulls of translates. 5556: Uniform boundedness for groups. 6151: A remark on analyticity of function algebras. 2507: (with de Loew, K.) Analytic measures on compact groups. 6150: (with Werner, J.) Measures orthogonal to a Dirichlet algebra.
- Gluck, Herman. 1924: Tangled manifolds. 5241b: Embeddings in the trivial range.
- Gluskin, L. M. 1466: Ideals in rings and their multiplicative semigroups. 2570: On dense embeddings. 2570: Semigroups and rings of endomorphisms of linear spaces. II. 5238: The semigroup of homeomorphic mappings of an interval. 5355: Semi-heaps with minimal left ideals.
- Glushkov, V. M. 1532: On the structure of connected locally bicompact groups.
- Gluss, Brian. 963: Further remarks on line segment curve-fitting using dynamic programming. 2347: Approximately optimal one-dimensional search policies in which search costs vary through time.
- Gnanadesikan, R. 2047: (with Smith, H. and Hughes, J. B.) Multivariate analysis of variance (MANOVA).
- Gnedenko, B. V. 3003: ★Lehrbuch der Wahrscheinlichkeitsrechnung. 4234: On certain problems in probability theory. 4297: On a generalization of Erlang's formulas. 777: (with Smirnov, N. V.) On the work of A. N. Kolmogorov in the theory of probability.
- Gnedenko, B. W. = Gnedenko, B. V.
- Gnoenskil, L. S. = Gnoenskil, L. S.
- Gnoenskil, L. S. 6648: On the tracking problem.
- Go, Dan-ajun'. 6116: Complete continuity of the Urysohn operator.
- Godeaux, Lucien. 641: Une propriété de la surface représentant les couples de points d'une courbe de genre trois. 1900: Sopra una superficie legata ad una successione di Laplace chiusa. 2900: Une surface canonique de l'espace à six dimensions. 2901: Construction d'une surface algébrique possédant une seule courbe canonique de genre cinq. II. 2902: Une variété algébrique à trois dimensions dont les sections hyperplanes sont des surfaces de bigenre un. 2903: Sur les variétés algébriques à trois dimensions dont les sections hyperplanes sont des surfaces de bigenre un. 2904: Remarque sur les surfaces non rationnelles de genres zéro. 2928: Sur les surfaces minima projectives. 2930: Remarques sur les congruences W. 4128: Sur un théorème de F. Enriques. 4129: Sur les courbes tracées sur certaines surfaces irrégulières. 4151: Surfaces liées à des suites de Laplace terminées dans les deux sens. 4152: Surfaces dont les réglées gauches asymptotiques d'un mode appartiennent à des complexes linéaires. 4153: Congruences W dont les asymptotiques ou les réglées asymptotiques gauches d'un mode des nappes focales appartiennent à des complexes linéaires. I. 4154: Sur l'enveloppe de certaines suites de quadriques. 5100: ★Théorie des involutions cycliques appartenant à une surface algébrique et applications. 5161: Une correspondance entre deux surfaces du sixième ordre.
- Goded, Y. 4500: Transformations of the Schrödinger equation with discrete energy spectrum.
- Gödel, Kurt. 1373: ★On formally undecidable propositions of *Principia Mathematica* and related systems.
- Godini, G. 2509: (with Ivănescu, P.) Semilinear spaces. I.
- Godunov, S. K. 5445: The problem of a generalized solution in the theory of quasi-linear equations and in gas dynamics. 5054: (with Rjaben'kii, V. S.) Canonical forms of systems of linear ordinary difference equations with constant coefficients. 2118: (with Zabro-
- din, A. V.) Difference schemes of second-order accuracy for higher-dimensional problems.
- Goel, Shashi. 1975: Propagation of sound waves in compressible non-Newtonian fluids.
- Goetz, A. 1560: On measures in fibre bundles.
- Goffman, Casper. 3782: Approximation of non-parametric surfaces of finite area. 6082: Remark on a problem of Lusin.
- Gogosev, V. V. 5462: Resolution of an arbitrary discontinuity in magnetohydrodynamics.
- Gohberg, I. C. 6147: Criteria for one-sided reversibility of elements of normed rings and their applications. 1758: (with Krein, M. G.) The effect of some transformations of kernels of integral equations on the equations' spectra.
- Gohman, A. V. 685: On the intrinsic geometry of a rheonomic space.
- Golab, Stanislaw. 1906: Contribution à la théorie des équations de Killing dans les espaces de Riemann. 1731: (with Aczél, J.; Kuczma, M. and Sivek, E.) Das Doppelverhältnis als Lösung ein Funktionalgleichung.
- Golant, V. E. 4624: Effect of like-particle collisions on plasma diffusion across a strong magnetic field.
- Gol'dman, F. M. 1314: On the theory of signal accumulating methods in the presence of correlated noise.
- Gol'dberg, A. A. 4933: On the growth of an entire function along a ray.
- Goldberg, J. N. 6600: Asymptotic invariants in gravitational radiation fields. 6599: (with Sachs, R. K.) A theorem on Petrov types.
- Goldberg, M. 4144: Packing of 33 equal circles on a sphere.
- Goldberg, Seymour. 591: Closed linear operators and associated continuous linear operators.
- Gol'dberg, V. V. 662: Axial images of conjugate nets of an N -dimensional projective space and some related problems.
- Goldberger, M. L. 3329: (with Gell-Mann, M.; Low, F. E. and Zachariasen, F.) Elementary particles of conventional field theory as Regge poles. II.
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- Goldman, A. J. 1321: (with Bender, B. K.) Maximum cellular Boolean functions and perfect Gray codes.
- Gol'dman, M. A. 1832: (with Kračkovskii, S. N.) Operators of Riesz-Schauder type in locally convex spaces.
- Goldoni, Gino. 5491: Sulla teoria matematica della antenna.
- Goldsmith, Werner. 6470: (with Banaugh, Robert P.) Diffraction of steady acoustic waves by surfaces of arbitrary shape.
- Goldstein, Max. 2271: (with Keller, Joseph B. and Rubinow, S. I.) Zeros of Hankel functions and poles of scattering amplitudes.
- Golenko, D. I. 2085: (with Buzlenko, N. P.; Sobol', I. M.; Sragovič, V. G. and Šreider, Ju. A.) ★The method of statistical testing (The Monte Carlo method).
- Golodce, V. Ja. 2534: Matrix elements of irreducible unitary and spinor representations of the proper Lorentz group.
- Golomb, Solomon W. 105: On the sum of the reciprocals of the Fermat numbers and related irrationalities. 4199: Arithmetica topologica.
- Golesova, E. 496: (with Gandler, M. and Naftalevič, A.) On the convergence of factorial series.
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- Golevin, V. D. 2760: Stability of a basis of exponential functions.
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- Gongadze, R. S. 3738: Summation of a singular series related to certain quaternary quadratic forms.
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- Goodman, Leo A. 3040: On methods for comparing contingency tables. 6323: (with Krukal, William H.) Measures of association for cross classifications. III. Approximate sampling theory.
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- Gopala Krishnan, N. S. 4844: A note on global dimension.
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- Gordon, B. 3576: (with Fraenkel, A. S. and Straus, E. G.) On the determination of sets by the sets of sums of a certain order.
- Gordon, J. P. 1111: (with Walker, L. R. and Louisell, W. H.) Quantum statistics of masers and attenuators.
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- Gori, Laura. 1758: Una generalizzazione della formula di interpolazione di Lagrange-Hermite.
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- Granzow, Kenneth D. 4517: N -dimensional total orbital angular-momentum operator.
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- Gray, Marion C. 1636: Bessel functions of integral order and complex argument.
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- Green, A. E. 1004: (with England, A. H.) Some two-dimensional punch and crack problems in classical elasticity.
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- Green, H. G. 639: (with Prior, L. E.) The possible transformations of a real curve into a curve with real equation and passing through the isotropic points.
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- Greenspan, Donald. 3096: Partial difference approximations with non-negative coefficients. 6053: (with Anseloni, P. M.) On a class of linear difference-integral equations. 3095: (with Warten, Ralph M.) On the approximate solution of Dirichlet-type problems with singularities on the boundary. 4391: (with Yohe, M.) On the approximate solution of $\Delta u = F(u)$.
- Greenspan, H. P. 1095: Similarity solution for a cylindrical shock-magnetic field interaction. 5438: (with Benney, D. J.) On shear-layer instability, breakdown and transition.
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- Gribov, V. N. 4561: Fermion Regge poles and the asymptotic behavior of meson-nucleon large-angle scattering. 5539: Fermion Regge poles and asymptotics of scattering of mesons on nucleons through large angles. 6525: (with Pomeranchuk, I. Ya.) Regge poles and Landau singularities. 6534: (with Anisovich, V. V.; Ansel'm, A. A. and Dyatlov, I. T.) Anomalous thresholds and final-state interaction.
- Griffith, J. S. 4593: Spin Hamiltonian for even-electron systems having even multiplicity. 6632: A field theory of neural nets. I: Derivation of field equations.
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- Griffiths, Phillip A. 4249: Some geometric and analytic properties of homogeneous complex manifolds. II. Deformation and bundle

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- Grigorian, S. S. = Grigorjan, S. S.
- Grigorjan, S. S. 3200: On the paper "Penetration of a wedge into compressible half-space" by Z. N. Dobrovol'skaia.
- Grindel, I. 6434: Flexion d'une console orthotrope, dont la section transversale est multiple connexe.
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- Grilin, V. P. 5454: On a calculation method related to a process of automatic adaptation.
- Grisvard, Pierre. 583: Théorème de trace et applications. 4699: Espaces de traces à plusieurs variables. 5115: Théorèmes de trace.
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- Groenewold, H. J. 5539: Regularized models in electrodynamics.
- Groh, Helmut. 359: (with Schäffe, Friedrich Wilhelm) Zur Berechnung der Eigenwerte der Mathieschen Differentialgleichung. 360: (with Schäffe, Friedrich Wilhelm and Ebert, Rudolf) Ein Verfahren zur Berechnung des charakteristischen Exponenten der Mathieschen Differentialgleichung. II.
- Gromov, V. P. 2616: On the series $\sum_{n=1}^{\infty} d_n f(\lambda_n z)$.
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- Grzegorzczak, Andrzej. 1347: ★Outline of mathematical logic.
- Gu, Lan-kuen = Ku, Lan-kuen.
- Guagenti, Elisa Grandori. See Grandori Guagenti, Elisa.
- Gubanov, G. P. 1763: (with Kalašnikov, M. D.) Polynomials of best (quadratic) approximation at a given system of points.
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- Guclidean, Rosalia. 2558: On the construction of the magnetic space groups.
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- Gulasu, Silviu. 805: La répartition asymptotique pour les suites aléatoires de variables aléatoires. 1596: Sur l'interprétation géométrique des représentations quasi-conformes.
- Gulraud, J. P. 1262: Analyse des irréversibilités dans un gaz rayonnant. 4466: Recherches sur la théorie hypersonique des petites perturbations.
- Gultet, Jack. 5384: Convergence d'un procédé de directions alternées appliqué aux équations de l'élasticité plane.
- Gulliksen, Harold. 4698: Linear and multidimensional scaling.
- Gumowski, Igor. 955: Sur l'existence des solutions périodiques d'une équation différentielle-fonctionnelle autonome d'ordre 1.
- Gun, G. 2511: Limits for the characteristic roots of a matrix. III.
- Gundersen, Roy M. 4473: Magnetohydrodynamic shock propagation in non-uniform ducts. 5464: The effects of heat addition to one-dimensional magnetohydrodynamic flow. 5465: Interaction of magnetohydrodynamic simple waves in monatomic fluids.
- Gunning, R. C. 1970: Homogeneous symplectic multipliers. 2632: Generalized symplectic differential forms and differential operators.
- Guo, Zhong-heng. 1018: Problem of spherical membrane in the theory of large deformation. 3150: Isentropic motion of a medium subjected to initial isothermal finite deformation.
- Gupta, A. S. 4474: Rayleigh-Taylor instability of a viscous electrically conducting fluid in the presence of a horizontal magnetic field.
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- Gupta, Shanti S. 2048: Probability integrals of multivariate normal and multivariate t . 2049: Bibliography on the multivariate normal integrals and related topics.
- Guralnik, G. S. 1135: (with Hagen, C. R.) Regge poles in relativistic wave equations.
- Gurarii, V. I. 2535: On inclinations of spaces and conditional bases in Banach space.
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- Gurtin, M. E. 3123: A generalization of the Beltrami stress functions in continuum mechanics.
- Guseinbekova, A. M. 330: Asymptotic expansion of the eigenfunctions and eigenvalues of a self-adjoint second-order differential operator with continuous large coefficients.
- Guseinov, A. I. 2618: (with Muhtarov, H. Š.) A theorem for the existence of a bounded solution for non-linear singular integral equations with Cauchy kernel.
- Guseman, L. F., Jr. 2093: (with Luther, H. A.) A finite sequentially compact process for the adjoints of matrices over arbitrary integral domains.
- Gustafson, Rune. 908: (with Hyrenius, Hannes) ★Tables of normal and log-normal random deviates. Part I. 909: (with Hyrenius, Hannes) ★Tables of normal and log-normal random deviates. Part II.
- Gutenmacher, L. I. 965: ★Electronic information-logic machines.
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- Haimovici, Corina.** 2450: Pseudo-nilpotent elements. 2510: Sous-algèbres attachées aux éléments d'une algèbre.
- Haimovici, Mendel.** 1903: Sur l'intégration des systèmes différentiels extérieurs.
- Hains, F. D.** 2210: (with Price, J. F.) Stability of plane Poiseuille flow between flexible walls.
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- Free particle and interaction theory. 1202: (with de Broglie, Louis; Bohm, David; Hillion, Pierre; Takabayasi, Takahiko and Vigier, Jean-Pierre) Rotator model of elementary particles considered as relativistic extended structures in Minkowski space.
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- Halperin, Max.** 4304: (with Mantel, Nathan) Interval estimation of non-linear parametric functions.
- Halpern, Francis R.** 1171: Reduction formula for the five-point function. 2272: Singularities of the four-point function in perturbation theory with variable masses.
- Halpern, Leopold.** 3411: On the structure of the gravitation self interaction. 4655: On the role of gravitational fields in some elementary particle processes.
- Hamada, Suguru.** 5809: On a free resolution of a dihedral group.
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- Hamdan, M. A.** 6321: The number and width of classes in the chi-square test.
- Hammer, L. P.** 1305: (with Balag, E.) The transportation problem with interchangeable centres. 1308: (with Balag, E.) Au sujet du problème des transports. IV. Une méthode pour résoudre les problèmes des transports.
- Hammer, P. C.** 4135: Approximation of convex surfaces by algebraic surfaces. 4136: Convex curves of constant Minkowski breadth. 4137: Semispaces and the topology of convexity.
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- Handelman, G. H.** 3119: (with Keller, J. B.) Small vibrations of a slightly stiff pendulum.
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- theorem for the sum of a random number of independent random variables.
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- Hara, O. 4583: Possibility of giving a finite mass to the gauge field.
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- Haradze, A. K. 1419: Application of Hermite's method to the proof of the irrationality of the roots of certain special functions.
- Harary, Frank. 3346: (with Battle, Joseph and Kodama, Yukihiro) Every planar graph with nine points has a nonplanar complement. 3975: (with Cohen, D. E. and Kodama, Y.) On the embedding of complete graphs in orientable surfaces. 5247: (with Battle, Joseph; Kodama, Yukihiro and Youngs, J. W. T.) Additivity of the genus of a graph.
- Haraşov, D. F. 1829: Some unbounded symmetrizable operators on Hilbert spaces.
- Hardy, F. L. 5826: On groups of ring multiplications.
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- $$\frac{dy}{dx} = \frac{q_{00} + q_{10}x + q_{01}y + q_{20}x^2 + q_{11}xy + q_{02}y^2}{p_{00} + p_{10}x + p_{01}y + p_{20}x^2 + p_{11}xy + p_{02}y^2} \quad I.$$
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- Hsü, Ming-wei. 5962: (with Ye, Yan-qian; He, Chong-you; Wang, Ming-shu and Luo, Ding-jun) A qualitative study of the integral curves of the differential equation
- $$\frac{dy}{dx} = \frac{q_{00} + q_{10}x + q_{01}y + q_{20}x^2 + q_{11}xy + q_{02}y^2}{p_{00} + p_{10}x + p_{01}y + p_{20}x^2 + p_{11}xy + p_{02}y^2} \quad I.$$
- Hsu, P. T. 2182: (with Chen, M. M. and Pian, T. H. H.) Impulsive loading of rigid-plastic curved beams.
- Hsü, Sung-ch'ing. 1668: Conditions for the stability of a certain class of systems of differential equations in a critical case.
- Hsü, Tao-ning. 4809: Über den Hauptidealsatz für imaginäre quadratische Zahlkörper.
- Hu, S. T. = Hu, Sze-tsen.
- Hu, Sze-tsen. 1950: Immersions of compact metric spaces into Euclidean spaces. 4228: Smith invariants in singular cohomology.
- Huan, Ci-jul. 1649: (with Fan, Cu-pau and Cen, Sin'-cem) On differential equations with algebraic limit cycles.
- Huang, Hung-chia. 2247: Some differential equation problems in electronics.
- Huang, Kerson. 4605: ★Statistical mechanics.
- Huard, Pierre. 6628: Dual programs.
- Hubbard, B. E. 2114: (with Bramble, J. H.) A theorem on error estimation for finite difference analogues of the Dirichlet problem for elliptic equations.
- Huber, Alfred. 2644: Ein räumliches Analogon des Wiman-Heinschen Satzes.
- Huber, Heinz. 4923: Zur analytischen Theorie hyperbolischer Raumformen und Bewegungsgruppen. II.
- Huber, Peter J. 187: Homotopy theory in general categories. 188: Standard constructions in abelian categories.
- Huby, R. 6506: Convergence of Born series and the existence of bound states.
- Hudal-Verenov, M. G. 381: Algebraic solutions and limit cycles of a differential equation.
- Hudson, Anne L. 1921: Example of a nonacyclic continuum semigroup S with zero and $S = ESE$. 238: (with Mostert, Paul S.) A finite dimensional homogeneous clan is a group.
- Hudson, John F. P. 1964: A non-embedding theorem.
- Hudson, Sigmund. 5237: Topological loops with invariant uniformities.
- Huebsch, William. 6282: (with Morse, Marston) Analytic diffeomorphisms approximating C^∞ -diffeomorphisms.
- Hugenholz, N. 4601: Application of field theoretical methods to many-boson systems. 3363: (with Pines, D.) Ground-state energy and excitation spectrum of a system of interacting bosons.

- Hughes, J. B. 2047: (with Smith, H. and Gnanadesikan, R.) Multi-variate analysis of variance (MANOVA).
- Hughes, N. J. S. 3646: Steinitz' exchange theorem for infinite bases.
- Huguenin, P. 4590: (with Amiet, J.-P.) Tensor-force and spin-orbit coupling in the framework of the Hartree-Fock theory.
- Hull, T. E. 4367: (with Croomer, A. L.) Efficiency of predictor-corrector procedures. 2130: (with Newbery, A. C. R.) Corrector formulas for multi-step integration methods.
- Hunger, Herbert. 5672: (with Vogel, Kurt) ★Ein byzantinisches Rechenbuch des 15. Jahrhunderts.
- Hunter, C. 3193: Similarity solutions for the flow into a cavity.
- Hunter, Larry C. 5612: Optimum checking procedures. 3447: (with Barlow, Richard E. and Proschan, Frank) Optimum redundancy when components are subject to two kinds of failure.
- Hunter, R. P. 1920: (with Anderson, L. W.) The \mathcal{H} -equivalence in compact semigroups.
- Huntington, H. B. 4631: (with Ghate, P. B.) New technique for calculating correlations for vacancy diffusion.
- Hurd, A. E. 4067: Maximum modulus algebras and local approximation in C^* .
- Hurwitz, Adolf. 4723a: ★Mathematische Werke. Bd. I: Funktionentheorie. 4723b: ★Mathematische Werke. Bd. II: Zahlentheorie, Algebra und Geometrie.
- Husain, Q. M. 884: A note on the symmetrical balanced incomplete block (S.B.I.B.) designs with $k=0, \lambda=2$.
- Husain, Taqdir. 1895: Berichtigung zu der Arbeit: "Locally convex spaces with the $B(\mathcal{F})$ -property". 560: (with Mahowald, Mark) Barrelled spaces and the open mapping theorem.
- Huskivadze, G. A. 4991: Conjugate functions and Cauchy's singular integrals.
- Hustad, Otte. 2827: Convex cones with properties related to weak local compactness.
- Hustaf, Z. 3891: Über einige Eigenschaften linearer Differentialgleichungen fünfter Ordnung.
- Hutchinson, P. 3383: (with Rushbrooke, G. S.) On the internal consistency of the hyper-chain approximation in the theory of classical fluids.
- Hvedelidze, B. V. 531: (with Mandzavidze, G. F.) A problem for the linear conjugate and singular integral equations with Cauchy kernel with continuous coefficients.
- Hwa, Rudolph C. 4566: Singularities in the unphysical sheets and the isobar model.
- Hyers, D. H. 6452: (with Kyner, W. T.) The existence of symmetric steady flows near critical speed.
- Hyrenius, Hannes. 908: (with Gustafsson, Rune) ★Tables of normal and log-normal random deviates. Part I. 909: (with Gustafsson, Rune) ★Tables of normal and log-normal random deviates. Part II.
- Hyvär, S. 103: (with Inkeri, K.) On the congruence $3^{p-1} \equiv 1 \pmod{p^2}$ and the Diophantine equation $x^2 - 1 = y^p$.
- Iacob, Calva. 2715: Sur le problème plan de Dirichlet pour une classe particulière de domaines. Application au problème de Saint-Venant.
- Ibsch, Horst Dieter. 5259: Homotopie-Theorie relativer Faserungen.
- Ibn al-Haitham, Hasan. 15b: Livre des commentaires aux introductions des "Éléments" d'Euclide (extraits; traduction russe).
- Ibragimov, I. A. 1978: A central limit theorem for a class of dependent random variables.
- Ibragimov, I. I. 4949: A bound for the norm of a linear operator in the class of entire functions of finite degree. 3892: (with Dikafarov, A. S.) A bound for a differential operator in the class of entire functions of finite degree.
- Ichinohe, Takakatsu. 4174: (with Hashimoto, Shintaro) On a manifold induced from the differentiable manifold with the almost contact metric structure.
- Ide, Saburō. 4729: Akitsugu Kawaguchi.
- Iglekii, M. A. 3816: (with Arson, I. S.) On the decrease of harmonic functions in a cylinder.
- Ignat, C. 946: (with Calistru, N.) La méthode des droites pour la résolution approximative de certains problèmes à valeurs initiales.
- Ikeda, Masatoshi. 4929: On crossed products of a sfield.
- Ikeda, Mineo. 1211: (with Ogawa, Shuzo and Ohnuki, Yoshio) The full symmetry theory of the Sakata model.
- Ikeda, Nobuyuki. 823: (with Hida, Takeyuki) Note on linear processes.
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- Il'in, V. P. 3750: Properties of certain classes of differentiable functions of several variables defined in an n -dimensional domain. 2708: (with Solonnikov, V. A.) Some properties of differentiable functions of several variables.
- Il'inikil, A. S. 5493: (with Svečnikov, A. G.) Calculation of waveguide transition of composite form.
- Imhof, J. P. 2129: Remarks on quadrature formulas.
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- Inaba, Eizi. 5751: On generalized Artin-Schreier equations.
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- Infeld, E. 3414: (with Demiański, M.) The radiative energy and the motion of particles.
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- Ingelstam, Lars. 4096: Hilbert algebras with identity.
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- Inkeri, K. 103: (with Hyvär, S.) On the congruence $3^{p-1} \equiv 1 \pmod{p^2}$ and the Diophantine equation $x^2 - 1 = y^p$.
- Inoue, Sakuji. 4077a: Some analytical properties of the spectra of normal operators in Hilbert spaces. 4077b: Functional-representations of normal operators in Hilbert spaces and their applications. 4077c: Some applications of the functional-representations of normal operators in Hilbert spaces. 4077d: Some applications of the functional-representations of normal operators in Hilbert spaces. II. 4077e: Some applications of the functional-representations of normal operators in Hilbert spaces. III. 4077f: Some applications of the functional-representations of normal operators in Hilbert spaces. IV. 4077g: Some applications of the functional-representations of normal operators in Hilbert spaces. V. 4077h: Some applications of the functional-representations of normal operators in Hilbert spaces. VI.
- Inoue, Yoshiro. 763: On classification of maps of CSS complex into a CSS group.
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- Ionescu-Pallas, Nicolas Jean. 5583: Su una nuova dimostrazione della variazione della massa in rapporto alla velocità.
- Ionescu Tulcea, Alexandra. 4907: Un théorème de catégorie dans la théorie ergodique. 257: (with Ionescu Tulcea, Cassius) On the lifting property. I. 606: (with Ionescu Tulcea, Cassius) Abstract ergodic theorems.
- Ionescu Tulcea, Cassius. 257: (with Ionescu Tulcea, Alexandra) On the lifting property. I. 606: (with Ionescu Tulcea, Alexandra) Abstract ergodic theorems.
- Iosifescu, Marius. 3452: (with Theodorescu, Radu) Sur la programmation linéaire.
- Irimiciuc, N. 2144: (with Manžeron, D. and Drăgan, K.) New graph-analytic methods of studying machines and mechanisms.
- Irimiciuc, N. = Irimiciuc, N.
- Isaacs, G. L. 5061: An iteration formula for fractional differences.
- Isaev, V. K. 6660: (with Sonin, V. V.) A nonlinear problem in optimum control. The problem, the structure of the optimal control, and first integrals.
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- tice-ordered rings and function rings. 1816: (with Thomas, E. S., Jr.) Mazur's theorem on sequentially continuous linear functionals.
- Ishiki, K. = Ishiki, Kiyoshi.
- Ishiki, Kanetsuro. 266: On real functions and parametric curves. I.
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- Ishida, Makoto. 147: On coverings of algebraic varieties.
- Ishiguro, Kazuo. 1741: On the circle method of summation of a Cauchy product series. 1742: Tauberian theorems concerning the summability methods of logarithmic type.
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- Ishihara, Tadashige. 6516: (with Yamagata, Hideo) On distributions and spaces of sequences. III. On powers of the distributions. 6517: (with Yamagata, Hideo) On distributions and spaces of sequences. IV. On generalized multiplication of distributions.
- Ishii, Jyun. 6111: On almost uniformly simple modulars.
- Ishii, Katsuyuki. 2264: (with Suzuki, Yasutaka) Normalized eigenfunction for linear potential problem.
- Ishizawa, Shingo. 4449: On the similarity conditions of the three dimensional boundary layer equations over bodies of revolution.
- Iswata, Takeshi. 718: Normality and perfect mappings.
- Iskenderov, S. A. 474: Solution of a mixed problem for a non-linear parabolic equation by the method of lines. 2869: On an equation with an operator depending analytically on a parameter.
- Islam, Jamal N. 1185: Modified Mandelstam representation for heavy particles. 6535: Aenodes and cusps and the Mandelstam representation.
- Ismagilov, R. S. 4979: On the self-adjointness of the Sturm-Liouville operator.
- Itô, Jun-Itô. 334: Subharmonic functions with mass distribution on the negative real axis.
- Itô, Kiyoshi = Itô, Kiyosi.
- Itô, Kiyosi. 4270: A survey of stochastic processes. 4257: (with McKean, H. P., Jr.) Brownian motions on a half line.
- Ito, Koichi. 2639: On multivariate analysis of variance tests. 6330: A comparison of the powers of two multivariate analysis of variance tests.
- Itô, Seizô. 2740: The existence and uniqueness of regular solutions of Navier-Stokes equations.
- Itoh, Makoto. 4489: On electromagnetic function theory.
- Iudovich, V. I. = Judovitch, V. I.
- Ivănescu, P. 1366: (with Balaş, E.) On the transportation problem. II. Parametric transportation problems. 1367: (with Balaş, E.) On the transportation problem. III. Transportation problems with variable centers. 2599: (with Godini, G.) Semilinear spaces. I.
- Ivanjuta, E. I. 1013: (with Finkel'stein, R. M.) On the application of a variational method to the solution of certain dynamic problems of the theory of shells.
- Ivanov, A. V. 5497: A heat-transfer problem for multi-layer media and the cellular Green's function.
- Ivanov, L. D. 4908: (with Vituškin, A. G. and Mel'nikov, M. S.) Incommensurability of the minimal linear measure with the length of a set.
- Ivanov, V. K. 3932: On ill-posed problems.
- Ivanov, V. V. 2823: Method of approximate solution of systems of singular integral equations. 5099: On the Wiener-Hopf equation of the first kind.
- Ivanov, Vasil. 3100: (with Picok, Milan) Lösung einer algebraischen Gleichung n -ten Grades mit reellen positiven Wurzeln durch ein Programm für die programmgesteuerte elektronische digitale Rechenanlage National-Elliott 803.
- Ivanova, N. A. 412: The asymptotic behavior of the Green's function of a linear ordinary differential equation with variable coefficients depending on a small parameter.
- Ivanović, Dragica M. 2319: ★The theory of relativity.
- Ivash, Eugene V. 4964: (with Scherr, Charles W.) Associated Legendre functions.
- Ivasilen, S. D. 1714: (with Eidel'man, S. D. and Porper, F. O.) Liouville theorems for systems which are parabolic in the sense of G. E. Silov.
- Ivlev, E. T. 2923: A canonical frame for a pair of congruences in projective 3-space. 2924: Construction of frames of submanifolds in the theory of pairs of congruences in P_3 . 2925: A canonical frame for an arbitrary pair of complexes in P_3 . 4149: Coordinate frames of subvarieties in the theory of pairs of complexes in P_3 . 2976: (with Pergamenik'kov, M. B.) On a projective class of pairs of complexes.
- Iwamoto, Fumiaki. 3273: Theorem on energy shifts due to a potential in a large box.
- Iwasawa, Kenkichi. 4806: A class number formula for cyclotomic fields.
- Iwata, Shikô. 624: On a property of areal simplexes. 1858: The problem in closure in the n -dimensional space. 2887: On the geometry of the n -dimensional simplex. 5156: The n -dimensional simplex and the hyperquadric.
- Iwizaki, T. 1640: On the n -th order Riccati equation of the second kind.
- Iyengar, K. T. Sundara Raja. 1003: Stress distribution in an orthotropic semi-infinite strip. 4414: (with Alwar, R. S.) Stress analysis of a long compound bar.
- Izaak, Imre G. 6613: A second-order solution of Vinti's dynamical problem.
- Jabotinsky, Eri. 5904: Analytic iteration.
- Jack, Henry. 2518: An application of the addition theorem for determinants. 2596: An integral over the interior of a simplex.
- Jackson, E. Atlee. 396a: Nonlinear coupled oscillators. I. Perturbation theory; ergodic problem. 396b: Nonlinear coupled oscillators. II. Comparison of theory with computer solutions.
- Jackson, H. L. W. 3169: (with Power, G.) Use of Stokes' stream function for discontinuities of potential at a spherical boundary.
- Jackson, J. D. 3335: Weak interactions.
- Jacob, Calus. 1063: Sur la réversibilité de la transformation de Tchapligne.
- Jacobowitz, Ronald. 131: Hermitian forms over local fields.
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- Jacobson, Nathan. 3690: Generic norm of an algebra.
- Jacoby, Günther. 2392: ★Die Ansprüche der Logistiker auf die Logik und ihre Geschichtschreibung.
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- Jacquard, Pierre. 4469: (with Séguier, Paul) Mouvement de deux fluides en contact dans un milieu poreux.
- Jaeger, Thomas. 1031: (with Sawczuk, Antoni) ★Grenztragfähigkeits-Theorie der Platten.
- Jaffard, Paul. 5828: Solution d'un problème de Krull.
- Jaffe, A. M. 1138: (with Kim, Y. S.) Asymptotic behavior of the S matrix for high angular momentum.
- de Jager, E. M. 3212: Oscillating rectangular wings in supersonic flow with arbitrary bending and torsion mode shapes. I. Development of the theory. 3213: Oscillating rectangular wings in supersonic flow with arbitrary bending and torsion mode shapes. II. Numerical results.
- Jahnin, B. M. 522: Approximation of functions of class $Lip \alpha$ by partial sums of a Fourier series in Chebyshev polynomials of second kind.
- Jain, P. C. 1059: Pressure fluctuations within isotropic turbulence.
- Jain, R. K. 1088: (with Mehta, K. N.) Laminar hydromagnetic flow in a rectangular channel with porous walls.
- Jaiswal, M. C. 2022: (with Khatri, C. G.) Estimation of parameters of a truncated bivariate normal distribution.
- Jakovlev, M. N. 5146: (with Jaškova, G. N.) Some conditions for stability of the Petrov-Galerkin method.
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- Jakut, L. I. 3375: On the basic problem of convergence of difference schemes.
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- James, I. M. 4231: (with Thomas, Emery; Toda, H. and Whitehead, G. W.) On the symmetric square of a sphere.
- Jana, R. N. 6440: Deformation in an infinite poroelastic medium with a long circular cylindrical hole.
- Janavičius, A. 5338: (with Kalade, Ju. A. and Šugurov, V. K.) Elimination of the motion of the center of mass in a system of identical particles.
- Janavičius, A. I. = Janavičius, A.
- Janbyh, G. 2370: On a method of synthesis of coding rings.
- Jancel, R. 5566: ★Les fondements de la mécanique statistique classique et quantique.
- Jancevici, B. 3313: Quasi-boson approximation and quantum electrodynamics.
- Jansenko, N. N. 2125: Implicit difference methods for the higher-dimensional heat equation. 2126: (with Bojarincev, Ju. E.) Convergence of difference schemes for the heat equation with variable coefficients.
- Janet, M. 683: Groupes continus finis et variétés à connexion affine.
- Jankiewicz, Cz. 5591: Newtonian equations of motion and the harmonic coordinate conditions in the theory of gravitation.
- Jankó, Béla. 1623: Sur la théorie unitaire des méthodes d'itération pour la résolution des équations opérationnelles non-linéaires. I. 4388: On a generalized method of Chebyshev.
- Janko, Jaroslav. 910: ★Statistical tables. 4300: On some problems in mathematical statistics.
- Janko, Zvonimir. 3692: Finite groups with invariant fourth maximal subgroups. 3691: (with Newman, M. F.) On finite groups with p-nilpotent subgroups.
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- Janković, Zlatko. 3348: On the collective model wave functions.
- Jankowski, Kazimierz. 6634: The dynamic investigation of stochastic sequences.
- Janner, Aloysio. 1239: Ergodicity of quantum many-body systems.
- Janos, W. A. 3191: On the convergence and error estimation of the iterative solution to the nonlinear Boltzmann equation.
- Janovská, E. B. 6629: Quasi-invariant kernels in antagonistic games.
- Janowski, Witold. 1593: Sur le borne supérieure d'une fonctionnelle dans la famille des fonctions univalentes bornées. 5668: ★Mathematics. A textbook for departments of electricity and mechanics in polytechnic institutes. Vol. II.
- Jan Ši. 4632: On the spectrum of spin waves.
- Jantscher, Lothar. 6095: Über das asymptotische Verhalten der Lösungen linearer Integralgleichungen.
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- Jarkov, O. I. 1119: Stationary state of an axially symmetric system of charged particles.
- Jarmuhamedov, Š. 3815: On the growth of functions which are harmonic in a cylinder and which increase on its boundary with the normal derivative.
- Jasek, B. 5058: Transformations of complex series.
- Jaškova, G. N. 5146: (with Jakovlev, M. N.) Some conditions for stability of the Petrov-Galerkin method.
- Jaśkowski, S. 2397: Über Tautologien, in welchen keine Variable mehr als zweimal vorkommt.
- Jaswon, M. A. 4634: Integral equation methods in potential theory. I. Jauch, J. M. 1110: (with Finkelstein, D.; Schiminovich, S. and Speiser, D.) Principle of general Q covariance.
- Javorskij, I. V. 4633: Representation of physical space in Fourier space.
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- Jenkins, G. M. 2669: Cross-spectral analysis and the estimation of linear open loop transfer functions.
- Jenkins, H. B. 1887: On two-dimensional variational problems in parametric form.
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- Jha, S. S. 5575: (with Kino, G. S.) A variational technique for determining the propagating modes of a finite plasma.
- Jiang, Jia-he. 3457: Essential equilibrium points of n-person non-cooperative games. II. 6246: Essential fixed points of the multi-valued mappings.
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- Joh, Kenzo. 951: (with Sugiyama, Hiroshi) Some probabilistic methods for numerical analysis in case of boundary value problems of partial differential equations. I.
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- Jones, Alfredo. 3698: Groups with a finite number of indecomposable integral representations. 4870: Integral representations of the direct product of groups.
- Jones, B. Frank, Jr. 2735: Various methods for finding unknown coefficients in parabolic differential equations. 3948: †The determination of a coefficient in a parabolic differential equation. I. Existence and uniqueness. 3992: (with Douglas, Jim, Jr.) On predictor-corrector methods for nonlinear parabolic differential equations. 3949: (with Douglas, Jim, Jr.) The determination of a coefficient in a parabolic differential equation. II. Numerical approximation.
- Jones, D. S. 1101: High-frequency refraction and diffraction in general media.
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- Jones, Gerald Lee. 2179: (with Kobett, Donald R.) Interaction of elastic waves in an isotropic solid.
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- Jónsson, Bjarni. 4777: Algebraic extensions of relational systems.
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- Jordan, Pascual. 6601: (with Ehlers, Jürgen and Sachs, Rainer K.) Beiträge zur Theorie der reinen Gravitationsstrahlung. Strenge Lösungen der Feldgleichungen der allgemeinen Relativitätstheorie. II. 6602: (with Ehlers, Jürgen; Kundt, Wolfgang and Sachs, Rainer K.) Beiträge zur relativistischen Mechanik kontinuierlicher

- Medien. Strenge Lösungen der Feldgleichungen der allgemeinen Relativitätstheorie. IV.
- Jordan, T. F. 1124: (with Currie, D. G. and Sudarshan, E. C. G.) Relativistic invariance and Hamiltonian theories of interacting particles. 3342: (with Mukunda, N. and Pepper, S. V.) Irreducible representations of generalized oscillator operators.
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- Jucys, A. P. 2259: (with Žukauskas, K. P.) A generalization of the recurrence relation between the Clebsch-Gordan coefficients. 4592: (with Rudzikas, Z. B.; Vizbaraitė, J. I. and Bandzaitis, A. A.) Matrix elements of operators consisting of single tensor operators.
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- Karapetjan, S. E. 666: Projective-differential geometry of families of higher-dimensional planes. I. 1894: On line complexes of a three-dimensional projective space. 1895: Linear manifolds of lines and planes in a projective 4-space. 1896: Projective differential geometry of two-parameter families of lines and planes in 4-space. I. 1897: Projective-differential geometry of two-parameter families of lines and planes in 4-space. II.
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- Karzewski, B. 6479: Degree of coherence of the electromagnetic field.
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- Klimontovich, Yu. L.** = **Klimontovich, Ju. L.**
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- Klotz, Thla. 1882: Some geometric consequences of conformal structure. 2917: Some uses of the second conformal structure on strictly convex surfaces.
- Klozay, Czesław. 1655: (with Bielecki, Adam) Sur une généralisation d'un théorème de H. Kneser. 1656: (with Bielecki, Adam) Sur un théorème concernant des systèmes d'équations différentielles ordinaires.
- Kluge, W. 3246: (with Boersch, H. and Geiger, J.) Anwendung der Sommerfeldschen Zylinderwelle auf eindimensionale scharfkantige Amplituden- und Phasenobjekte.
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- Kluzánek, Igor. 1558a: On the theory of vector measures. 1558b: Some generalizations of a theorem of Riesz and Kakutani.
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- Kobett, Donald R. 2179: (with Jones, Gerald Lee) Interaction of elastic waves in an isotropic solid.
- Kochendörffer, R. 1494: On supplements in finite groups.
- Kočina, N. N. = Kočina, N. N.
- Kočina, N. N. 6492: Thermodynamic functions for some particular forms of the expression for internal energy of an ideal, compressible medium.
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- Kolesov, Ju. S. 5983: (with Krasnosel'skii, M. A.) Lyapunov stability and equations with concave operators.
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- Komissarova, M. L. 5396: (with Volkov, S. D.) Certain representations of the general solutions of the boundary-value problems of elasticity theory.
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- Kopnin, Ju. M. 3879: Oscillations of autonomous systems with one degree of freedom.
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- Korányi, Adam. 1623: The Bergman kernel function for tubes over convex cones. 2647: On the boundary values of holomorphic functions in wedge domains.
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- Korn, Theresa M. 4391: (with Korn, Granino A.) ★Elektronische Analogierechenmaschinen. (Gleichstromanalogrechner).
- Korneičuk, N. P. 521: The exact constant in the theorem of D. Jackson on the best uniform approximation to continuous periodic functions. 2774: Extremal properties of periodic functions. 3984: The exact value of best approximations and widths of certain classes of functions.
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- Korotkina, M. R. 2145: A sufficient condition for averaging the force field in the motion of a large number of interacting particles. 5567: Simplification of the system of kinetic equations.
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- Kotera, Takeyasu. 6574: Localized vibration and random walk.
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- Kotš, Satoshi. 1913: On almost analytic tensors in almost complex spaces.
- Kotsig, Anton. 2971: Paare Hajósche Graphen.
- Kovács, István. 604: Théorèmes ergodiques non commutatifs. 2876: Ergodic theorems for gages.
- Koval', P. I. 6052: Asymptotic behavior of solutions of systems of linear difference equations.
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- Kowalsky, Hans-Joachim. 1486: Kategorien topologischer Räume.
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- erties. III. Optimum control in linear systems. Minimum mean-square error.
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- v. Krbek, F. 5590: Ausführungen zur Ergodentheorie.
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- Krein, M. G. = Krein, M. G.
- Krein, M. G. 1852: Criteria for completeness of the system of root vectors of a dissipative operator. 1788: (with Gohberg, I. C.) The effect of some transformations of kernels of integral equations on the equations' spectra. 3265: (with Liubarskii, G. Ia.) On the theory of transmission bands of periodic waveguides.
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- Kreindler, Eliezer. 2706: Contributions to the theory of time-optimal control.
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- Krivocheine, L. E. = Krivošelin, L. E.
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- Krulkov, S. N. 440: Some properties of solutions of elliptic equations. 1687: A priori bounds for generalized solutions of second-order elliptic and parabolic equations.
- Krylov, A. L. 375: (with Arnol'd, V. I.) Uniform distribution of points on a sphere and certain ergodic properties of solutions of linear ordinary differential equations in a complex domain.
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- Kryloveckii, A. G. 1236: (with Rapoport, L. P.) Generalized equations of superconductivity. 6554: (with Rapoport, L. P.) Quantum vortices in a fermion system.
- Krylovetskii, A. G. = Kryloveckii, A. G.
- v. Krzywoblocki, M. Z. 5443: (with Roth, H.) Three-dimensional stream function in terms of quaternions.
- Krzyż, J. 3701: (with Lewandowski, Z.) On the integral of univalent functions.
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- Kahrsagar, A. M. 2059: Distribution of the adjusted row sum of squares in two-way designs.
- Ku, Lan-kuen. 5947: Asymptotic behavior of the solution of the Cauchy problem for a parabolic equation.
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- Kubilius, I. P. = Kubilius, J.
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- Kubota, Isao. 2046: An elucidation on some correlation coefficients. 2659: On the papers of Neil M'Arthur and Felix Valey. 3827: On the theorem of Schottky and Landau for functions of two variables.
- Kubota, Yōto. 3772: On the approximately continuous Denjoy integral.
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- Kucharczyk, Piotr. 1724: A geometric method for separating classes of solutions of equations of gas dynamics by using certain Lie transformation groups of the space and the time-space.
- Kucharszewski, M. 2747: (with Kuczma, M.) On the functional equation $F(A \cdot B) = F(A) \cdot F(B)$. 6202a: (with Kuczma, M.) Some remarks on geometric objects and their equivalence. I. 6202b: (with

- Kucma, M.) Some remarks on geometric objects and their equivalence. II.
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- Kudô, Akio. 2041: Some problems of symmetric multiple decisions in multivariate analysis.
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- Li, Ai-tsing.** 2736: (with Hsu, Man-ying; Ma, Shi-chao and Sniĭh, Chung-pao) A singular Cauchy problem for a second order partial differential equation.
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- Li, Pei-xen = Li, P'ei-hsin.**
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- Li, Yüeh-sheng.** 495: The bound, stability and error estimates for the solution of nonlinear differential equations.
- Liang, Chung-ch'ao.** 2680: The boundedness of solutions of certain nonlinear differential equations.
- Liang, Zhong-chao = Liang, Chung-ch'ao.**
- Lianis, George.** 999: Finite elastic analysis of an infinite plate with an elliptic hole in plane strain.
- Lieberman, L. H.** 3909: Stability of solutions of differential-operator equations with retarded times under perturbations bounded in the mean.
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- Lidakiĭ, E. A. = Lidakiĭ, È. A.**
- Lidakiĭ, È. A.** 4703: On the stabilization of stochastic systems. 4704: Optimal control of systems with random properties. 2375: (with Krasovskii, N. N.) Analytical design of controllers in systems with random attributes. I. Statement of the problem, method of solving. 2376: (with Krasovskii, N. N.) Analytic design of controllers in systems with random attributes. II. Equations of optimum solutions. Approximate solutions. 2377: (with Krasovskii, N. N.) Analytical control design in systems with random properties. III. Optimum control in linear systems. Minimum mean-square error.
- Lieb, Elliott H.** 6552: Exact analysis of an interacting Bose gas. II. The excitation spectrum. 6566: New method in the theory of imperfect gases and liquids. 6551: (with Liniger, Werner) Exact analysis of an interacting Bose gas. I. The general solution and the ground state.
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- Lifšic, E. M.** 4681: (with Khalatnikov, I. M.) Investigations in relativistic cosmology. 4485: (with Landau, L. D.) ★Field theory.
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- Lind, Ingemar. 377: An iterative method for conformal mappings of multiply-connected domains.
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- Linnik, Ju. V. 802: On the accuracy of the approximation to a Gaussian distribution of sums of independent random variables. 803: On "a-factorizations" of infinitely divisible probabilistic laws. 804: Limit theorems for sums of independent variables, taking large deviations into account. II. 3041: Complex variables in problems with nuisance parameters and finite-rank sufficient statistics. 4263: Limit theorems for sums of independent quantities, taking large deviations into account. III. 4306: Application of complex variables to the study of the Behrens-Fisher problem. 4307: On the Wald test. 4308: On the theory of tests for two normal samples. 4309: Linear forms and statistical criteria. I. 4310: Linear forms and statistical criteria. II. 5345: ★The method of least squares and the principles of the mathematical-statistical theory of processing of observations. 863: (with Mitrofanova, N. M.) On the asymptotics of the distribution of a maximum likelihood statistic. 3042: (with Salasvaki, O. V.) On the analytic theory of tests for the Behrens-Fisher problem. 4311: (with Zinger, A. A.) On a class of differential equations with an application to certain questions of regression theory.
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- Ljubarskii, G. Ja. = Ljubarskii, G. Ja.
- Ljubimov, G. A. = Ljubimov, G. A.
- Liulevicius, Arunas. 6270: A theorem in homological algebra and stable homotopy of projective spaces.
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- Lju, Sên-c'juan'. 4451: Calculation of the laminar boundary layer in an incompressible fluid in the presence of suction or injection. 4452: Calculation of the laminar boundary layer in a compressible gas in the presence of suction or injection.
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- $$\frac{dy}{dx} = \frac{q_{00} + q_{10}x + q_{01}y + q_{20}x^2 + q_{11}xy + q_{02}y^2}{p_{00} + p_{10}x + p_{01}y + p_{20}x^2 + p_{11}xy + p_{02}y^2} \quad I.$$
- Lobač, V. P. 917: (with Gurin, L. S.) Combination of the methods of Monte Carlo and steepest descent for solving certain extremal problems.

- Löbl, Frank.** 632: Notiz über einige Dreiecksätze der absoluten Geometrie.
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- Lokhin, V. V. = Lohin, V. V.**
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- Lombardo-Radicce, Lucio.** 1877: La decomposizione tattica di un piano grafico finito associata a un k -arco.
- Lombet-Goffart, J.** 350: Étude des zéros complexes des solutions de l'équation confluyente de Whittaker. I. 5939: Étude des zéros complexes des solutions de l'équation confluyente de Whittaker. II.
- Lomonosov, M. V.** 6011: On the fundamental solutions of elliptic equations.
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- Lorence, M.** 367: Sulla risoluzione delle equazioni differenziali ordinarie mediante trasformazioni. 2003: (with Baiada, E.) Generalizzazioni markoviane non stazionarie della definizione di perimetro.
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- Ma, Shi-chao. 2736: (with Hsu, Man-ying; Li, Ai-tsing and Shih, Chung-pao) A singular Cauchy problem for a second order partial differential equation.
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- Mak-Laren, A. D. = McLaren, A. D.
- Maksudov, F. G. 3854: A study of the spectrum of non-selfadjoint differential operators.
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- tain abstract functional equations. 6136: Spectral representations for some unbounded normal operators.
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- Mamedhanov, D. I. 5892: Some inequalities for rational functions and polynomials of a complex variable. 5893: Some extremal problems in the class of polynomials and rational functions.
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- Mammana, Carmelo. 6179: Corrispondenze cremoniane e loro jacobiane. 6180: Su una notevole classe di corrispondenze cremoniane.
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- Mandelstam, S. 1182: Regge poles as consequences of analyticity and unitarity. 3324: Dispersion relations in strong-coupling physics.
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- Mandlavide, G. F. 551: (with Hvedelidze, B. V.) A problem for the linear conjugate and singular integral equations with Cauchy kernel with continuous coefficients.
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- Manin, Ju. I. 4812: Proof of an analogue of Mordell's conjecture for algebraic curves over function fields.
- Manjanathalah, K. 1599: On the derivatives of entire functions. 4934: A note on meromorphic functions.
- Mano, Kenji. 90: On the integral solutions of $\sum_{i=1}^n x_i^2 = \sum_{i=1}^n y_i^2$. 1388: On the formula uH_r .
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- Manžeron, D. = Mangeron, D.
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- Marčuk, P. M. 3386: (with Vladimirov, V. V.) Stability of a tubular pinch.
- Marcus, Bernard. 2083: Solutions of infinite polynomial systems by iteration.
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- Marinescu, G. = Marinescu, Gheorghe.
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- Markov, A. 1369: On the inversion complexity of a system of Boolean functions. 2426: On certain algorithms related to systems of words. 3527: On constructive functions. 3328: On constructive mathematics.
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- Markus, A. S. 1837: The root-vector expansion of a weakly perturbed self-adjoint operator.
- Markušević, A. I. 1574: ★Complex numbers and conformal mappings.
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- Markushevich, A. I. = Markušević, A. I.
- Maron, I. A. 4335: (with Demidovič, B. P.) ★Foundations of numerical analysis.
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- Martensen, E. 3385: Das Stabilitätsverhalten eines Plasmatorus mit Oberflächenströmen.
- Marić, Branislav. 1739: Sur l'inclusion de la sommabilité d'Euler et de Vučković. 3972: On a class of two-parametric summation methods and their applications.

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- Massey, W. S. 1969: Non-existence of almost-complex structures on quaternionic projective spaces.
- Masuyama, Motosaburo. 888: Decomposition by bilateral cosets and its generalization. 3065: Various approaches to automatic diagnosis by discrete variates.
- Máté, László. 5124: Extension of semigroups of operators.
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- Matsubara, Takeo. 3364: (with Thompson, Colin J.) Self-consistency in the quasi-chemical equilibrium theory of superconductivity.
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- Matsuura, Shigetake. 470: A remark on ellipticity of general systems of partial differential operators with constant coefficients. 471a: Partially hypoelliptic and partially elliptic systems of differential operators with constant coefficients. 1879: A problem in solid geometry.
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- Mauersberger, P. 4477: Das Hamiltonsche Prinzip in der Magnetohydrodynamik. 4478: Die Webersche Transformation in der Magnetohydrodynamik. 4479: Zur Interpretation einer Funktion, welche in der Weberschen Transformation der Magnetohydrodynamik auftritt.
- Maunder, C. R. F. 752: The spectral sequence of an extraordinary cohomology theory.
- Mau Quan, Pham. See Pham Mau Quan.
- Maurin, K. 1156: Mathematical structure of Wightman formulation of quantum field theory. 1157: On some theorems of H. J. Borchers. 1835: (with Maurin, L.) Spektrum und verallgemeinerte Eigen-elemente separierbarer Operatoren. 5123: (with Maurin, Lidia) Spektraltheorie separierbarer Operatoren.
- Maurin, L. 1835: (with Maurin, K.) Spektrum und verallgemeinerte Eigen-elemente separierbarer Operatoren. 5123: (with Maurin, Krzysztof) Spektraltheorie separierbarer Operatoren.
- Maury, Guy. 3661: Théorème de transfert de propriétés de l'anneau A à l'anneau $A[\theta]$ extension simple entière de A .
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- May, Frank. 157: (with Marcus, Marvin) The maximum number of zeros in the powers of an indecomposable matrix.
- Mayne, D. Q. 5649: Optimal non-stationary estimation of the parameters of a linear system with Gaussian inputs.
- Maz'ja, V. G. 5026: The Dirichlet problem for elliptic equations of arbitrary order in unbounded domains. 1838: (with Sobolevskii, P. E.) On generating operators of semi-groups.
- Mazur, Barry. 773: Relative neighborhoods and the theorems of Smale.
- Mazur, S. 3517: Computable analysis.
- McAndrew, M. H. 1932: On the product of directed graphs.
- McAuley, Van A. 4356: A method for the real and complex roots of a polynomial.
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- McFadden, J. A. 3025: On the lengths of intervals in a stationary point process. 5289: (with Doyle, Worthie and Marx, Emanuel) The dis-

- tribution of a certain nonlinear functional of an Ornstein-Uhlenbeck process.
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- McKean, H. P., Jr. 6312: A winding problem for a resonator driven by a white noise. 4297: (with Itô, K.) Brownian motions on a half line. 3018: (with Blumenthal, R. M. and Gettoor, R. K.) A supplement to "Markov processes with identical hitting distributions".
- McKenna, J. 1152: (with Platzman, P. M.) Nonlinear interaction of light in a vacuum.
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- McMillan, D. R. = McMillan, D. R., Jr.
- McMillan, D. R., Jr. 779: Homeomorphisms on a solid torus. 1925: (with Curtis, M. L.) Cellularity of sets in products.
- McVittie, G. C. 4674: The cosmical constant and the time-scale.
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- Mehra, Madan Lal. 1217: (with Dyson, Freeman J.) Statistical theory of the energy levels of complex systems. IV. 1218: (with Dyson, Freeman J.) Statistical theory of the energy levels of complex systems. V.
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- Meller, N. A. 543: An application of the operational calculus to the evaluation of certain integrals. 544: Some applications of the operational calculus to problems of analysis.
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- Mel'nikov, M. S. 6191: Dependence of volume and diameter of sets in an n -dimensional Banach space. 4908: (with Vitukin, A. G. and Ivanov, L. D.) Incommensurability of the minimal linear measure with the length of a set.
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- Melsi, Giovanni. 1886: Sulla dimostrazione di un classico teorema riguardante gli ovali nel piano. 2927: Modelli di varietà differenziabili più volte rigate a congruenze non permutabili.
- Mendelsohn, N. S. 4224: (with Dulmage, A. L.) Two algorithms for bipartite graphs. 6375: (with Dulmage, A. L.) On the inversion of sparse matrices. 6625: (with Dulmage, A. L.) Matrices associated with the Hitchcock problem.
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- Menger, Karl. 163: On composite functions of matrices. 1353: A group in the substitutive algebra of the calculus of propositions.
- Mennicke, J. = Mennicke, Jean.
- Mennicke, Jean. 1960: (with Bergau, P.) Über topologische Abbildungen der Brezelfläche vom Geschlecht 2.
- Mennicke, Jens. 196: (with Leech, John) Note on a conjecture of Coxeter.
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- Mestvirishvili, M. A. = Mestvirishvili, M. A.
- Mestvirishvili, M. A. 6515: (with Todorov, I. T.) Analytic properties of the meson-nucleon vertex part and scattering amplitudes of pseudo-scalar mesons in perturbation theory.
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- Métivier, Michel. 2834: Martingales à valeurs vectorielles. Applications à la dérivation des fonctions d'ensembles à valeurs vectorielles.
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- Miehler, Lothar. 3729: (with Hasse, Maria) Über die Einbettbarkeit von Kategorien in Gruppoide.
- Middleton, David. 1317: (with Petersen, Daniel P.) Sampling and reconstruction of wave-number-limited functions in N -dimensional Euclidean spaces.
- Miele, Angelo. 2374: ★Flight mechanics. Vol. 1: Theory of flight paths.
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- Mihăilescu, Eugen = Mihăilescu, Eugen.
- Mihăilescu, Eugen. 1332: Generalization of some normal forms. 3495: Sur les propriétés de l'implication par rapport à l'équivalence et la disjonction.
- Mihăilescu, Tiberio. 6197: General affine differential geometry of skew curves.
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- Milicer-Grutewski, H. 476: Les valeurs initiales des dérivées de l'intégrale généralisée de Poisson-Weierstrass du système parabolique d'équations. 2728: Un exemple d'application de la méthode dite "des substitutions" aux propriétés probabilistes de la solution du système parabolique d'équations aux coefficients höldériens. 3946: Propriété limite de la matrice du potentiel généralisé de simple couche du système parabolique d'équations.
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- Millham, C. 5615: (with Sengupta, J. K. and Tintner, G.) On some theorems of stochastic linear programming with applications.
- Millončikov, V. M. 6062: On the theory of differential equations in locally convex spaces. 6093: The theory of differential equations with a small factor multiplying the derivatives in linear topological spaces.
- Mills, W. H. 1931: Some complete cycles on the n -cube. 4787: (with Bierstedt, R. G.) On the bound for a pair of consecutive quartic residues of a prime.
- Milne-Thomson, L. M. 1002: ★Antiplane elastic systems.
- Milnor, J. 2989: A survey of cobordism theory.
- Mimura, Yoshitaka. 4145: (with Takano, Hyōtiro) Wave geometry.
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- Minatani, Tomotada. 279: On a property of some class of univalent function.
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- Mindin, O. A. = Mindin, A. A.
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- Mischchenko, E. F. = Mišenko, E. F.
- v. Mises, Richard. 432a: (with Frank, Philipp, co-editor) ★Die Differential- und Integralgleichungen der Mechanik und Physik. I: Mathematischer Teil. 432b: (with Frank, Philipp, co-editor) ★Die Differential- und Integralgleichungen der Mechanik und Physik. II: Physikalischer Teil.
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- Mogyoródi, J. 1979: A central limit theorem for the sum of a random number of independent random variables.
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- Moon, J. W. 5097: An extension of Landau's theorem on tournaments. 1936: (with Moser, L.) On a problem of Turán. 4225: (with Moser, L.) Simple paths on polyhedra. 4765: (with Moser, L.) Triangular dissections of n -gons.
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- Moré, A. C. 4751: (with Frayne, T. and Scott, D. S.) Correction to the paper "Reduced direct products".
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- Morgado, Jose. 62: On the automorphisms of the lattice of closure operators of a complete lattice. 1489: Sur le normalisateur d'un sous-groupe cyclique. 3581: A correction to the paper "Unitary analogue of the Nagell totient function".
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- Morsymas, J. = Mozyrmas, J.
- Moser, Jürgen. 1669: Stability and nonlinear character of ordinary differential equations.
- Moser, L. 5724: Notes on number theory. V. Insolvability of
- $$\binom{2n}{n} = \binom{2a}{a} \binom{2b}{b}.$$
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- Mostowski, Andrzej. 3546: On undecidable sentences in formalized mathematical systems.
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- Motulevič, V. P. 3199: Flow of gas from a nozzle cut in an oblique plane.
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- Mukherjee, S. N. 1781: Some inversion formulae for the generalised Laplace transforms of two variables. 2810: On some integral representations of the generalised Laplace transform. I. 5097: An inversion formula for the generalised Stieltjes transform.
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- Nádenik, Zbyněk. 1890: Über das Volumen des Körpers, dessen Randfläche die Enveloppe einer einparametrischen Familie von konvexen Zylinderflächen ist. 5175: Annähernd konforme Projektion des Referenzellipsoids.
- Nadler, Horst. 2489: Verallgemeinerung einer Formel von Ramanujan.
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- Nageswara Rao, K. 2468: Generalization of a theorem of Eckford Cohen. 2469: On extensions of Euler's ϕ function. 2470: A note on an extension of Euler's ϕ function. 2471: On Jordan function and its extension.
- Naghdi, P. M. 4428: (with Mureh, S. A.) On the mechanical behavior of viscoelastic/plastic solids. 3146: (with Nordgren, R. P.) Loading and unloading solutions for an elastic/plastic annular plate in the state of plane stress under combined pressure and couple.
- Nagler, H. 4692: On a property of simplex tableaux in the transportation problem.
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- Naimark, M. A. 1836: On the structure of factor representations of a locally compact group. 2842: Unitary permutation operators in the space Π_1 . 5866: Unitary representations of solvable groups in spaces with indefinite metric.
- Nakagawa, Hisao. 6229: On automorphisms of an almost Tachibana space of constant holomorphic curvature.
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- Nakamura, Akira. 3509: On a simple axiomatic system of the infinitely many-valued logic based on \wedge, \rightarrow . 4740: On an axiomatic system of the infinitely many-valued threshold predicate calculi.
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- Narasimhan, M. S. 1904: (with Ramanan, S.) Existence of universal connections. II.
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- Naugol'nykh, K. A. = Naugol'nyh, K. A.
- Naur, Peter. 4390: (Editor) Revised report on the algorithmic language ALGOL 60.
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- Neumann, Hanna. 1496: Note on a theorem by Gachütz.
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- Neuts, Marcel F. 6081: (with Lambert, Pol V.) A limit theorem for orthogonal functions.
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- Newell, G. F. 2348: The flow of highway traffic through a sequence of synchronized traffic signals. 4689: Synchronization of traffic lights for high flow.
- Newman, D. J. 1817: Pseudo-uniform convexity in H^1 . 502: (with Lorch, Lee) The Lebesgue constants for regular Hausdorff methods. 6083: (with Lorch, Lee) The Lebesgue constants for (γ, r) summation of Fourier series. 6070: (with Shapiro, Harold S.) Some theorems on Čebyšev approximation. 575: (with Schwartz, J. T. and Shapiro, H. S.) On generators of the Banach algebras l_1 and $l_1(0, \infty)$.
- Newman, E. 3412: (with Penrose, R.) Errata: "An approach to gravitational radiation by a method of spin coefficients". 2325: (with Tamburino, L. and Unti, T.) Empty-space generalization of the Schwarzschild metric.
- Newman, M. = Newman, Morris.
- Newman, M. F. = Newman, Morris.
- Newman, Morris. 106: Bounds for cofactors and arithmetic minima of quadratic forms. 2551: On subgroup commutators. 2557: Normal congruence subgroups of the $i \times i$ modular group. 3691: (with Janko, Z.) On finite groups with p -nilpotent subgroups.
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- Nielke, K. 1052: Eine einfache Abschätzung für Grenzsichten.
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- Nigam, I. S. 1891: Pitch of ϕ -congruence.
- Nigam, P. D. 1085: (with Nigam, S. D.) Magnetohydrodynamic waves in rotating liquids.
- Nigam, S. D. 1085: (with Nigam, P. D.) Magnetohydrodynamic waves in rotating liquids.
- Nikolaevskii, V. N. 2241: A linear approximation in the mechanics of condensable porous media.
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- Nomura, Yasutoshi. 1961: On a lifting theorem. 1962: A characterization of suspension elements. 5261: An application of the path-space technique to the theory of triads.
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- Nordhaus, E. A. 1938: (with Stewart, B. M.) Triangles in an ordinary graph.
- Norguet, François. 6203: Problèmes sur les formes différentielles et les courants.
- Norkin, S. B. 1677: A case of the dependence of the retardation on the unknown function.
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- Novožilov, Ju. V. 3343: Four-dimensional isospin and hypercharge group in axiomatic quantum field theory. 5551: On the axiomatic theory of symmetry properties of elementary particles.
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- Ochoa Mérida, J. 781: Bounds of moments.
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- Ogievetakii, V. I. = Ogieveckii, V. I.
- Ogievetakii, V. I. = Ogieveckii, V. I.
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- Ōguchi, Kunio. 766: 2-primary components of the homotopy groups of spheres and Lie groups.
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- Okawa, Kôtarô. 1590: On the stability of boundary components.
- Okamoto, Masaaki. 6342: An asymptotic expansion for the distribution of the linear discriminant function.
- Okamoto, Sigeru. 1946: Cohomology groups of reduced product complexes.
- Okubo, Kenjiro. 5958: A global representation of a fundamental set of solutions and a Stokes phenomenon for a system of linear ordinary differential equations.
- Okubo, Susumu. 1174: Some consequences of analyticity and unitarity conditions in scattering problems. I. 1175: Some consequences of analyticity and unitarity conditions in scattering problems. II.
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- Olariu, Valter. 2725: Théorèmes de moyenne pour les solutions des équations aux dérivées partielles du second ordre.
- Olech, C. 5992: On the asymptotic coincidence of sets filled up by integrals of two systems of ordinary differential equations.
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- Omarov, E. O. 6410: An approximate solution to a partial differential equation of the type
- $$\frac{\partial^4 u}{\partial x^4} + a \frac{\partial^4 u}{\partial x^2 \partial y^2} + b \frac{\partial^4 u}{\partial y^4} = f(x, y)$$
- by the method of lines in a trapezoidal region.
- O'Mathuna, Diarmuid. 1015: Rotationally symmetric deformations in helicoidal shells. 6438: (with Reissner, E.) A problem of shearing and transverse bending of shallow, hyperbolic, paraboloidal shells.
- O'Meara, O. T. 2485: ★ Introduction to quadratic forms.
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- Oniščik, A. I. 239: On compact Lie groups transitive on certain manifolds. 3740: Inclusion relations between transitive compact transformation groups. 5868: Transitive compact transformation groups. 244: (with Dynkin, E. B.) Compact global Lie groups.
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- Ono, Katuzi. 5689: A stronger system of object theory as a prototype of set theory.
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- Oppenheim, A. K. 2234: (with Rosciszewski, J.) Shock interaction with an electromagnetic field.
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- O'Riartaigh, L. 1117: (with Ryan, C.) On a generalised commutation relation.
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- Ore, Oystein. 739: ★Graphs and their uses. 740: ★Theory of graphs.
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- Ospov, V. Z. 2203: Planar non-stationary motion of a viscous fluid inside a circular cylindrical annulus.
- Osserman, Robert. 657: Some geometric properties of polynomial surfaces. 1885: On complete minimal surfaces.
- Ossicini, A. 4902: (with Rosati, F.) Sugli integrali tripli di espressioni lineari alle derivate parziali.
- Oster, Ludwig. 5606: Radiative transfer in dispersive media.
- Ostians, V. M. 2369: Construction of non-binary error-correcting codes and an estimate of the number of their signals.
- Ostrom, T. G. 1969: Ovals and finite Bolyai-Lobachevsky planes.
- Ostrovskii, I. V. 2631: A problem from the theory of distribution of values.
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- Ōtsuki, Tominosuke. 6204: On curvatures of spaces with normal general connections. II.
- Ovčinskii, B. V. 2079: (with Guter, R. S.) ★Elements of numerical analysis and the mathematical processing of experimental results.
- Ovenden, M. W. 6614: (with Roy, A. E.) On the use of the Jacobi integral of the restricted three-body problem.
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- Porcu, Livio. 1870a: Proprietà geometriche di elementi differenziali di curve algebriche piane. I. Elementi del terzo ordine. 1870b: Proprietà geometriche di elementi differenziali di curve algebriche piane. II. Elementi del quarto ordine. 1870c: Proprietà geometriche di elementi differenziali di curve algebriche piane. III. Elementi di flesso.
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- Pták, Vlastimil. 4355: (with Fidler, M.) Estimates and iteration methods for finding a simple eigenvalue of an almost-decomposable matrix.
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- Robinson, A. = Robinson, Abraham.
- Robinson, Abraham. 3532: On languages which are based on non-standard arithmetic. 3533: ★Introduction to model theory and to the metamathematics of algebra. 3634: (with Halpin, S.) Local partial differential algebra.
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- Robinson, Enders A. 1987: Properties of the Wold decomposition of stationary stochastic processes. 3050: Structural properties of stationary stochastic processes with applications. 3051: (with Wold, Herman) Appendix. Minimum-delay structure of least-squares and co-ipsa predicting systems for stationary stochastic processes.
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- Roecke, Walter. 1908: Über den Laplace-Operator auf Riemannschen Mannigfaltigkeiten mit diskontinuierlichen Gruppen.
- Rogers, Hartley, Jr. 1381: (with Kreider, Donald L.) Constructive versions of ordinal number classes.
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- Rosenfeld, B. A. 18a: Les démonstrations du 5-me postulat d'Euclide chez Ibn al-Haitham et Léon Gersonide. 18d: Notes aux textes

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- Rozet, O. 1892: Sur les suites de Laplace et les congruences de sphères de Ribaucour.
- Rozonoër, L. I. 6651: A variational approach to an invariance problem. I. 6652: A variational approach to an invariance problem. II. R.-Salinas, Baltasar = Rodrigues-Salinas, B.
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- Rudin, Mary Ellen. 1923: Arcwise connected sets in the plane.
- Rudin, Walter. 1779: The extension problem for positive-definite functions. 2808: ★Fourier analysis on groups. 3757: Division in algebras of infinitely differentiable functions.
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- Rumjancev, V. V. 2149: On the stability of motion of gyrostat. 3178: On the stability of stationary motions of rigid bodies with cavities containing fluid. 4407: (with Pozharitskii, G. K.) The problem of the minimum in the question of stability of motion of a solid body with a liquid-filled cavity.
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- Rusanov, V. V. 6009: Characteristics of the general equations of gas dynamics.
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- Rushbrooke, G. S. 3383: (with Hutchinson, P.) On the internal consistency of the hyper-chain approximation in the theory of classical fluids. 3372: (with Scoins, H. I.) Errata: "Cluster sums for the Ising model".
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- Saban, Giacomo. 1851: Caratterizzazioni integrali della sfera ed alcune loro estensioni a spazi n -dimensionali o riemanniani. 1890: Sulle curve sghembe. 5174: Sulle curve sghembe.
- Sabanina, T. B. 3837: (with Žongolovič, I. D.) ★Five-place tables of $\lg \frac{1}{2}x$ and $\lg^2 \frac{1}{2}x$.
- Sabitov, I. H. 695: On the rigidity of certain surfaces of revolution.

- 1912: Infinitesimal bendings of a convex surface with a generalized translation boundary condition.
- Sahry, Afaf. 2283: Fourth order spectral functions for the electron propagator.
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- Sachs, Horst. 1934: Über selbstkomplementäre Graphen.
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- Šalaevskii, O. V. 2037: On the non-existence of regularly varying tests for the Behrens-Fisher problem. 5335: Testing of the fundamental hypotheses in multivariate analysis. 3042: (with Linnik, Ju. V.) On the analytic theory of tests for the Behrens-Fisher problem.
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- Salzer, Herbert E. 4358: Tables of coefficients for obtaining central differences from the derivatives.
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- Samandarov, E. G. 4292: Service systems in heavy traffic conditions.
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- Samedova, S. A. 399: Existence of periodic limiting regimes for a non-linear system of ordinary differential equations.
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- Sapunkov, Ja. G. 3211: Hypersonic flow past a circular cone at angle of attack.
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$$\frac{dy}{dx} = \frac{b_{10}x + b_{01}y + Q_2(x, y)}{a_{10}x + a_{01}y + P_2(x, y)}$$

on the Poincaré sphere.

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- Sato, Keniti. 1953: Time change and killing for multi-dimensional reflecting diffusion.
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- Savin, G. M. = Savin, G. N.
- Savin, G. N. 997: Effect of physical nonlinearity of the material on stress concentration around holes.

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- Sayasov, Yu. S. = Sajasov, Ju. S.
- Sayer, F. P. 1909: (with Tiffen, R.) A moment theory of elastic plates.
- Sazonov, V. V. 1790: Some results on characteristic functionals. 4257: On the theorem of Glivenko and Cantelli.
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- Scarpellini, Bruno. 3503: Die Nichtaxiomatisierbarkeit des unendlichwertigen Prädikatenkalküls von Lukasiewicz. 3992: Approximation von Funktionen durch Linearkombinationen von Eigenfunktionen Sturm-Liouvillescher Differentialgleichungen. 4744: Zwei unentscheidbare Probleme der Analysis.
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- Schirokov, A. P. = Širokov, A. P.
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- Schlieder, S. 1153: (with Reeh, H.) Über den Zerfall der Feldoperatoralgebra im Falle einer Vakuumzustand.
- Schneider, F. 1286: Gemeinsame Integrale ganzer Klassen von dynamischen Problemen.
- Schneider, Werner. 556: Reelle Lösungen algebraischer Integralgleichungen. 557: Der Alternativsatz der Integralgleichungstheorie und seine Ausdehnung auf algebraische Integralgleichungen.
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- Schneider, Albert. 5940: Eine Verallgemeinerung der Kapteynschen Reihen.
- Schnell, Edit. 3055: (with Sarkadi, Károly and Vincze, István) On the position of the sample mean among the ordered sample elements.
- Schoch, M. 2672: (with Kneschke, A.) Verfahren zur Überführung gewisser differentieller Randwertprobleme in lineare Integralgleichungen.
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- Schreiber, Michel. 1301: Un problème de décision séquentielle avec mémoire finie.
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- Semenikhin, V. K. = Semenihin, V. K.
- Semenovič, A. F. 1866: Constructions by means of a straight edge with parallel edges in the Lobachevsky plane.
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- Serebrjakova, N. N. = Serebrjakova, N. N.
- Serebrjakova, N. N. 5971: On periodic solutions of second order dynamic systems near piece-wise linear ones.
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- Ševljakov, Ju. A. 1007: (with Privarnikov, A. K.) On the calculation of laminar bases.
- Ševrin, L. N. 2572: Structural properties of semigroups. 3722: Semigroups, the lattice of subsemigroups of which is a lattice with unique complements. 5845: Commutative semigroups of finite rank. 5846: Semigroups all of whose subsemigroups are accessible. 5847: On lattice properties of semigroups.
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- Shah, S. M. 2621: On entire functions of infinite order. 4014: Trigonometric series with quasi-monotone coefficients. 4015: On the absolute harmonic summability of Fourier series. 882: (with Khatri, C. G.) An inequality for balanced incomplete block design.
- Shah, Tao-shing. 1988: Measures on a functional space.
- Shall, Ronald. 4944: Hyperspherical caps in generalised axially symmetric potential theory. I.
- de-Shalit, Amos. 4588: (with Talmi, Igal) ★Nuclear shell theory.
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- Shapiro, Harold S. 6070: (with Newman, D. J.) Some theorems on Čebyšev approximation. 875: (with Newman, D. J. and Schwartz, J. T.) On generators of the Banach algebras l_1 and $L_1(0, \infty)$.
- Shapiro, I. S. = Šapiro, I. S.
- Shapiro, J. M. 828: (with Baxter, Glen) On bounded infinitely divisible random variables.
- Shapiro, Victor L. 5916: The uniqueness of functions harmonic in the interior of the unit disk.
- Sharikadze, D. V. = Šarikadze, D. V.
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- Shefter, G. M. = Šešter, G. M.
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- Shepherdson, J. C. 1359: (with Sturgis, H. E.) Computability of recursive functions.
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- Sherman, S. 6569: Addendum: "Combinatorial aspects of the Ising model for ferromagnetism. I. A conjecture of Feynman on paths and graphs".
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- Ševčenko, V. V. = Ševčenko, V. V.
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- Shibuya, Yasutaka. 3869: Asymptotic expansions of the solutions of ordinary differential equations and their applications.
- Shields, A. L. 1607: (with Rubel, L. A.) Bounded approximation by polynomials.
- Shih, Chung-pao. 2726: (with Hsu, Man-ying; Li, Ai-tsing and Ma, Shichao) A singular Cauchy problem for a second order partial differential equation.
- Shih, Weishu. 2995: Sur la cohomologie spéciale.
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- Shiraki, Takanori. 2581: A subset homeomorphic to the whole space.
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- Shivakumar, P. N. 2172: Dislocations in isotropic cylinders of concentric circular cross-section.
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- Shneider, Ju. A. = Šneider, Ju. A.
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- Štalden, K. = Štalden, K.
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- Shun, Chia-lo. 2713: (with Ding, Shih-kuai; Wang, Kan-ting; Ma, Jun-nien and Chang, Tong) Definition of ellipticity of a system of second order partial differential equations with constant coefficients.
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- Shyu, Kwang-huei. 2009: On the queueing processes in the system $GI/M/n$ with bulk service.
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- Sibuya, Masaaki. 857: On a model in probit analysis. 881: A note on the use of median ranges. 3067: On exponential and other random variable generators. 3068: Further consideration on normal random variable generator.
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- Šidák, Zbyněk. 3021: Operators in the space of continuous functions and representation of Markov processes in a compact Hausdorff space.
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- de Siebenthal, J. 4114: Essai de rénovation de la géométrie descriptive.
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- Sierpiński, Wacław = Sierpiński, Wacław.
- Sierpiński, Wacław. 43: ★Introduction to the theory of sets and topology. 91: Sur les nombres triangulaires qui sont sommes de deux nombres triangulaires. 92: L'hypothèse de M. A. Schinzel sur les nombres premiers et les progressions arithmétiques. 1405: Sur l'équation $x = m^2y$ pour les nombres triangulaires. 1406: Sur une propriété des progressions arithmétiques. 2439: On the axiom of choice. 3588: Sur quelques genres de problèmes de la théorie des nombres.
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- e Silva, P. R. Paula. See Paula e Silva, P. R.
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- Simonenko, I. B. 2844: Interpolation and extrapolation of linear operators in Orlicz spaces.
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- Simonov, Ju. A. 6331: Multiple dispersion relations.
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- Sinai, Ja. G. 2604: (with Rohlin, V. A.) The structures and properties of invariant measurable partitions.
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- Sindalovskii, G. H. 2588: Congruent and asymptotic differentiability.
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- Singh, Avtar. 4431: (with Puri, P.) Dynamic thermal stresses in an infinite slab.
- Singh, K. R. 1089: (with Cowling, T. G.) Thermal convection in magnetohydrodynamics. I. Boundary layer flow up a hot vertical

- plate. 1090: (with Cowling, T. G.) Thermal convection in magnetohydrodynamics. II. Flow in a rectangular box.
- Singh, M. P. 3239a: (with Ludford, G. S. S.) The motion of a non-conducting sphere through a conducting fluid in a magnetic cross-field. 3239b: (with Ludford, G. S. S.) On the motion of a sphere through a conducting fluid in the presence of a magnetic field.
- Singh, Rajinder. 5328: Existence of bounded length confidence intervals.
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- Singh, S. P. 1634: On Besselian functions. 1787: A property of self-reciprocal functions of two variables. 2815a: Kernels in the generalised Hankel transforms. 2815b: A property of self-reciprocal functions. 2815c: Self-reciprocal functions of two variables in the generalised Hankel transform. 3847: Certain recurrence relations involving a generalised function of the Bessel type.
- Singh, Tarkeshwar. 5082: On Nörlund summability of Fourier series and its conjugate series.
- Singh, Virendra. 5540: (with Cornwall, John M. and Mahanthappa, Kalyana T.) Regge poles and complex singularities.
- Singhal, B. C. 531: The summability by logarithmic means of the ultraspherical series.
- Singroua, A. N. S. 3975: On Cesàro summability of Fourier-Laguerre series.
- Šinkar, A. I. 949: (with Dugač, M. I.) Application of a computer to the solution of the biharmonic equation.
- Sinkunas, Ju. 5194: Differential geometry of a line congruence in generalized Euclidean space.
- Sioson, F. M. 3727: On regular algebraic systems. A note on notes by Iseki, Kovacs, and Lajos.
- Siotani, Minoru. 3053: (with Kawakami, Hisako) Simultaneous confidence interval estimation on regression coefficients.
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- Širokov, A. P. 660: (with Schirokow, P. A.) ★Affine Differential-geometrie.
- Širokov, F. V. 3552: Solution of a problem of Halmos (Concept of a recurrent numerical sequence).
- Širokov, P. A. 660: (with Schirokow, P. A.) ★Affine Differential-geometrie.
- Sirota, A. I. 5862: (with Solodovnikov, A. S.) Non-compact semi-simple Lie groups.
- Sirovich, Lawrence. 3203: On the kinetic theory of steady gas flows. 5441: Dispersion relations in rarefied gas dynamics. 5442: (with Thurber, J. K.) Sound propagation according to the kinetic theory of gases.
- Širšov, A. I. 183: On the bases of a free Lie algebra.
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- Skal'skaja, I. P. 2246: (with Lebedev, N. N.) A new method for solving the problems of diffraction of electromagnetic waves by a wedge with finite conductivity.
- Skal'skaja, I. P. = Skal'skaja, I. P.
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- Sklyarenko, E. G. = Skijarenko, E. G.
- Sklyarevich, A. N. = Skijarevič, A. N.
- Skolet, Th. 1875: A general remark concerning the study of rational points on algebraic curves. 3511: Mengenlehre gegründet auf einer Logik mit unendlich vielen Wahrheitswerten. 3512: Recursive enumeration of some classes of primitive recursive functions and a majorisation theorem. 3513a: Proof of some theorems on recursively enumerable sets. 3513b: Addendum to my article: "Proof of some theorems on recursively enumerable sets".
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- Skvortsov, E. V. = Skvorcov, E. V.
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- Śladkowska, J. 5928: Bounds of analytic functions of two complex variables in domains with the Bergman-Silov boundary.
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- Slepian, D. 811: (with Rosenblatt, M.) n th order Markov chains with every N variables independent.
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- Slivnjak, I. M. 832: Some properties of stationary streams of homogeneous random events.
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- groups. 1324: The semigroup of group varieties. 3630: Free polynilpotent groups.
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- Smirnov, Yu. = Smirnov, Ju. M.
- Smirnov, Yu. M. = Smirnov, Ju. M.
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- Smith, Felix T. 6558: Quantum virial expansion.
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- Smith, Paul A. 5258: Orbit spaces of finite Abelian transformation groups.
- Smith, Peter. 1082: The steady magnetodynamic flow of perfectly conducting fluids. 4465: An extension of substitution principle to certain unsteady gas flows.
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- Smorodinskii, Ja. A. 3200: (with Ljubošić, V. L.) Covariant expansion of the electromagnetic field.
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- Sneerson, M. S. 323: On a class of solutions of the system of equations of Moisil and Dirac.
- Snell, J. Laurie. 6303: (with Kemeny, John G.) A new potential operator for recurrent Markov chains. 1997: (with Lamperti, J.) Martin boundaries for certain Markov chains.
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- Sobol', I. M. 5352: Application of the ω^3 -distribution for an error bound in evaluating integrals by the Monte-Carlo method. 3089: (with Samarskii, A. A.) Examples of numerical calculation of temperature waves. 2085: (with Buslenko, N. P.; Golenko, D. I.; Sragovit, V. G. and Šreider, Ju. A.) ★The method of statistical testing (The Monte Carlo method).
- Sobolev, S. L. 937: A method of calculating coefficients for mechanical cubature formulae. 1749: On the interpolation of functions of n variables. 5120: Some generalizations of imbedding theorems. 1324: (with Ljapunov, A. A.) The mathematical problems of modern cybernetics.
- Sobolevskii, P. E. 6004: On second-order differential equations in a Banach space. 2730: (with Kramosel'skii, M. A.) The structure of the set of solutions of equations of parabolic type. 1839: (with Maz'ja, V. G.) On generating operators of semi-groups.
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- Solarz, Lech. 2237: (with Kaliński, Sylwester) Aero-magneto-flutter of a plate flown past by a perfectly conducting gas in a magnetic field with isotropic action. 2238: (with Kaliński, Sylwester) Aero-magneto-flutter of a plate flown past by a perfectly conducting gas in a magnetic field with anisotropic action.
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- Soluyan, S. I. = Solujan, S. I.
- Sominskii, I. S. = Sominskii, I. S.
- Sominskii, I. S. 5669: ★The method of mathematical induction.
- Sone, Noriyuki. 1589: Univalent functions and non-convex domains.
- Sonin, V. V. 6660: (with Isaev, V. K.) A nonlinear problem in optimum control. The problem, the structure of the optimal control, and first integrals.

- Sonneborn, Lee M. 4864: (with Scott, W. R.) Translations of infinite subsets of a group.
- Sonnenschein, J. 3962: Une remarque sur certaines familles de procédés de sommation dont les domaines de sommabilité entourent le point $z=1$. 3963: Sur une classe de procédés de sommation.
- Serani, Giuliano. 1625: Une propriété topologique des q -paires de Runge. 2979: Residui di forme differenziali e omomorfismi di coomologia. 6262: Sui residui delle forme differenziali di una varietà analitica complessa.
- Sorensen, Harry A. 6493: ★Principles of thermodynamics.
- Sorgenfrey, R. H. 2949: (with Berri, Manuel P.) Minimal regular spaces.
- Sörnus, T. 497: A generalization of Mercer's theorem for double sequences. 498: Some generalizations of Mercer's theorem.
- Sosis, P. M. 2089: On the solution of systems of linear equations with well-defined matrix structures on electronic computers.
- Seubarmayer, 1094: (with Germain, Paul) Sur un schéma d'onde de choc en Magnétodynamique des fluides.
- Specker, E. 2425: (with Mac Dowell, R.) Modelle der Arithmetik.
- Spector, Clifford. 4745: Provably recursive functionals of analysis: a consistency proof of analysis by an extension of principles formulated in current intuitionistic mathematics.
- Speiser, D. = Speiser, David R.
- Speiser, David R. 1194: (with Tarski, Jan) Possible schemes for global symmetry. 1110: (with Finkelstein, D.; Jauch, J. M. and Schiminovich, S.) Principle of general Q covariance.
- Spence, D. A. 3155: The lift coefficient of a thin jet-flapped wing. II. A solution of the integro-differential equation for the slope of the jet. 3156: The theory of the jet-flap for unsteady motion.
- Spencer, Donald C. 1971: Some remarks on perturbation of structure. 6287a: Deformation of structures on manifolds defined by transitive, continuous pseudogroups. I. Infinitesimal deformations of structure. 6287b: Deformation of structures on manifolds defined by transitive, continuous pseudogroups. II. Deformations of structure.
- Speranza, Francesco. 5199: Determinazione di connessioni prospettive. 5200: Sulle superficie anonome di uno spazio a connessione lineare.
- Sperner, Emanuel. 4118: Verallgemeinerte affine Räume und ihre algebraische Darstellung.
- Spiegel, Edward A. 6457: A generalization of the mixing-length theory of turbulent convection.
- Spohn, Daniel. 923: (with Feingold, David) Un théorème simple sur les normes de matrices et ses conséquences.
- Sprindžuk, V. G. 1413: On the number of solutions of the Diophantine equation $x^2 = y^3 + A$. 5730: On a classification of transcendental numbers.
- Springer, T. A. 2533: (with van der Blij, F.) The arithmetics of octaves and of the group G_2 . 5166a: (with Veldkamp, F. D.) Elliptic and hyperbolic octave planes. I. 5166b: (with Veldkamp, F. D.) Elliptic and hyperbolic octave planes. II. 5166c: (with Veldkamp, F. D.) Elliptic and hyperbolic octave planes. III.
- Sprung, D. W. L. 3280: Relativistic formula for the spin correlation coefficient C_{KF} .
- Sragović, V. G. 4345: The simulation of certain classes of random processes. 2085: (with Buslenko, N. P.; Golenko, D. I.; Sobol', I. M. and Šreider, Ju. A.) ★The method of statistical testing (The Monte Carlo method).
- Šreider, Ju. A. 6164: ★What is distance? 5663: (with Akushsky, I. Y. and Basilevsky, Ju.) Logical, recursive and operator methods for the analysis and synthesis of automata. 2085: (with Buslenko, N. P.; Golenko, D. I.; Sobol', I. M. and Sragović, V. G.) ★The method of statistical testing (The Monte Carlo method).
- Sretenskii, L. N. 986: On certain cases of motion of a heavy rigid body with a gyroscope. 3159: Periodic waves originating from a source over an inclined bottom.
- Sridharan, R. 190: (with Murthy, M. Pavaman) On the global dimension of some algebras.
- Srinivasacharyulu, Kilambi. 6276: Sur les structures différentiables et les variations de structures complexes.
- Srinivasan, B. R. 101: An arithmetical function and an associated formula for the n th prime. I. 102: An arithmetical function and an associated formula for the n th prime. II. 1864: On the net of conics with a common self-polar triangle. I. 3602: The lattice point problem of many-dimensional hyperboloids. I. 3603: The lattice point problem of many-dimensional hyperboloids. II.
- Srinivasan, Bhamu. 5832: On the modular characters of the special linear group $SL(2, p^2)$.
- Srinivasan, R. 5696: On a theorem of Thrall in combinatorial analysis.
- Srinivasan, S. K. 1984: On a class of stochastic differential equations.
- Srinivasan, T. P. 2856: Simply invariant subspaces.
- Srinivasan, V. 4025: On the generalized Meijer transform.
- Srirangamma, M. 625: The configuration of complete quadrangle and quadrilateral.
- Srivastar, R. P. 6096: A note on certain integral equations of Abel-type.
- Srivastava, K. N. 1785: On some integral transforms. 6102: A class of integral equations involving ultraspherical polynomials as kernel.
- Srivastava, P. K. 4567: Effect of overlapping resonances in final states.
- Srivastava, Ramesh C. 4447: (with Kapur, Jagat N.) Similar solutions of the boundary layer equations for power law fluids.
- Srivastava, Satya Narain. 1600: A note on the derivatives of an integral function represented by Dirichlet series.
- Srubčik, L. S. 1643: (with Judović, V. I.) Asymptotic behavior of the equation of large deflection of a circular-symmetric loaded plate.
- Staldien, K. 1328: On the synthesis of linear automatic control systems with bounds on the displacements of the regulating elements using the criterion of minimum mean square error at any given instant of time.
- Stampacchia, Guido. 2710: Some limit cases of L^p -estimates for solutions of second order elliptic equations. 5148: On some regular multiple integral problems in the calculus of variations.
- Stancu, D. D. 2762: A method for obtaining polynomials of Bernstein type of two variables. 5880: On the integral representation of the remainder in Taylor's formula in two variables. 6388: L'expression du reste dans quelques formules de dérivation partielle numérique. 6389: Sur le calcul des coefficients d'une formule générale de quadrature.
- Stanek, Peter. 3709: Concerning a theorem of L. K. Hua and I. Reiner. 4868: Two-element generation of the symplectic group.
- Stanescu, C. 2171: (with Visarion, V.) An investigation of the quasi-invariants of the static-geometric analogy for thin elastic shells.
- Stanghellini, A. 1188: (with Amati, D. and Fubini, S.) Asymptotic properties of scattering and multiple production. 5538: (with Amati, D. and Wilson, K.) Theory of fermion Regge poles.
- Stanjuković, K. P. 5437: Investigation of the plane and axis-symmetrical waves in a medium with finite conductivity. 6609: A certain generalization of the Einstein gravitation equations.
- Stankevič, I. V. 1834: On the perturbation theory of a continuous spectrum.
- Stan'ko, M. A. 5228: The space of relative distances.
- Stanton, R. G. 4765: (with Berman, Gerald) The asymptotes of the root locus.
- Stanyukovich, K. P. = Stanjuković, K. P.
- Stapp, Henry P. 1130: Axiomatic S -matrix theory.
- Stasosin, A. I. 2559: (with Eidinov, M. I.) On Sylow bases of infinite groups.
- Staroverov, O. V. 845: On a search problem.
- Staryukevitch, D. 4783: Recherche des nombres premiers élevés sur une calculatrice binaire.
- Stăš, W. 3607: Zur Theorie der Möbiusschen μ -Funktion. 5737: Über eine Reihe von Ramanujan. 3608: (with Knapowski, S.) Another note on Hardy-Littlewood's theorem.
- Stasheff, James. 4235: A classification theorem for fibre spaces.
- Statulevičius, V. 798: Local limit theorems and asymptotic expansions for non-stationary Markov chains.
- Statuljavičius, V. = Statulevičius, V.
- Stearns, R. E. 1360: (with Hartmanis, J.) Some dangers in state reduction of sequential machines.
- Stečkin, S. B. 3994: On a problem of P. L. Ul'janov. 5108: Approximation properties of sets in normed linear spaces.

- Steer, B. 2981: Extensions of mappings into H -spaces. 2982: Generalized Whitehead products.
- Steiger, Martin H. 5434: (with Bloom, Martin H.) Three-dimensional effects in viscous wakes.
- Stein, C. 6331: (with Giri, N. and Kiefer, J.) Minimax character of Hotelling's T^2 test in the simplest case.
- Stein, Karl. 2651: Maximale holomorphe und meromorphe Abbildungen. I.
- Stein, N. 1948: (with Peterson, F. P.) The dual of a secondary cohomology operation.
- Stein, S. K. 4788: The intersection of Fibonacci sequences.
- Steinberg, Leon. 3038: (with Krishnaiah, P. R. and Hagis, Peter, Jr.) A note on the bivariate chi distribution.
- Steinberg, Robert. 3638: Générateurs, relations et revêtements de groupes algébriques. 5870: Representations of algebraic groups.
- Steinhaus, H. 2143: A note on astatic equilibrium. 4770: Some remarks about tournaments.
- Steinman, R. Ja. 4643: ★Space and time.
- Steinmann, O. 1168: Structure of the two-point function.
- Štelik, V. G. 388: (with Ševelo, V. N.) Some problems in the oscillation of solutions of non-linear, non-autonomous second-order equations.
- Stell, George. 5576: The Percus-Yevick equation for the radial distribution function of a fluid.
- Stel'mašuk, N. T. 450: Application of a generalization of areolar derivatives to transformations of certain systems of linear partial differential equations.
- Stenius, Erik. 4609: Über Relativitätstheorie als Funktionentheorie komplexer Zahlen indefiniter Art.
- Stenström, Bo T. 5002: Dynamical systems with a certain local contraction property.
- Stepaneev, G. F. 1935: (with Vldus, G. É.) A method of describing algorithmically the cyclic structure of a graph.
- Stepanov, B. I. 6486: Stability of stationary states of quantum generators.
- Stepanova, O. V. 1579: Certain properties of level curves for univalent conformal mappings.
- Stephen, M. J. 3384: Charged Boltzmann gas at absolute zero. 4618: The diamagnetic susceptibility of an electron gas. 1221: (with Zalewski, K.) On the classical approximation involved in the Thomas-Fermi theory.
- Stephenson, D. G. 935: (with Shirliffe, C. J.) A computer oriented adaptation of Salzer's method for inverting Laplace transforms.
- Stern, M. 2174: (with Stippes, M.) A unified numerical treatment for vibrating beams.
- Stern, Otto. 4495: On a proposal to base wave mechanics on Nernst's Theorem.
- Steudel, Heinz. 6513: Über die Zuordnung zwischen Invarianzeigenschaften und Erhaltungssätzen. 6514: Eine Erweiterung des ersten Noetherschen Satzes.
- Stevens, Harlan. 1407: Kummer congruences for products of numbers.
- Stewart, B. M. 1938: (with Nordhaus, E. A.) Triangles in an ordinary graph.
- Stewart, T. E. 5273: Fixed point sets and equivalence of differentiable transformation groups.
- de St Groth, S. Fazekas. See Fazekas de St Groth, S.
- Stiefel, Eduard. 3066: ★Einführung in die numerische Mathematik.
- Stihl, V. N. 3464: Control systems with feedback and opposite interests.
- Silson, Donald W. 2063: (with Campbell, Vincent N.) A note on calculating tau and average tau and on the sampling distribution of average tau with a criterion ranking.
- Stippes, M. 2174: (with Stern, M.) A unified numerical treatment for vibrating beams. 2163: (with Wilson, H. B., Jr. and Krull, F. N.) A contact stress problem for a smooth disk in an infinite plate.
- Stix, Thomas Howard. 3392: ★The theory of plasma waves.
- Stock, D. J. R. 1639: (with Kaplan, L. J.) A generalization of the matrix Riccati equation and the "star" multiplication of Redheffer.
- Stodółkiewicz, J. S. 1290: (with Pacholczyk, A. G.) The magnetogravitational instability of an infinite homogeneous medium when a Coriolis force is acting and viscosity is taken into account. 1291: (with Pacholczyk, A. G.) The magnetogravitational instability of the medium of finite electrical conductivity. 1292: (with Pacholczyk, A. G.) The magnetogravitational instability of a medium in non-uniform rotation. 2331: (with Pacholczyk, A. G.) Remarks concerning Anand, Kushwaha and Talwar's papers on gravitational instability of nonuniform media.
- Stoer, J. 154: (with Witzgall, C.) Transformations by diagonal matrices in a normed space.
- Stojek, Z. 5040: The proof of the uniqueness of the solution of a mixed problem for a class of partial differential equations of even order. 6435: On the uniqueness of the solution of the equation of transverse vibrations of a plate.
- Stoka, Marius I. 2937: Non-singular correspondences between projective spaces with constant projective connection. 4193: La géométrie intégrale dans un espace riemannien V_n .
- Štokalo, I. Z. 5979: ★Linear differential equations with variable coefficients. (Criteria of stability and instability of their solutions).
- Stokes, A. P. 3886: (with Hale, J. K.) Conditions for the stability of nonautonomous differential equations.
- Stolzenberg, Gabriel. 1626: Polynomially convex sets.
- Stone, A. H. 1916: Kernel constructions and Borel sets. 2435: Non-separable Borel sets.
- Stone, Charles. 3015: Weak convergence of stochastic processes defined on semi-infinite time intervals.
- Stone, Jeremy J. 4711: Multiple-burst error correction with the Chinese remainder theorem.
- Stone, Julian. 2362: Problems associated with the measurement of ambient-noise directivity by means of linear additive arrays.
- Stone, Mervyn. 865: Robustness of non-ideal decision procedures.
- Stong, Robert E. 1944: Determination of $H^*(BO(k, \dots, \infty), \mathbb{Z}_2)$ and $H^*(BU(k, \dots, \infty), \mathbb{Z}_2)$.
- Stora, R. 1144: (with Bros, J. and Messiah, A.) A problem of analytic completion related to the Jost-Lehmann-Dyson formula.
- Storch, Edoardo. 1087: Il metodo dei vettori coniugati in magnetodinamica.
- Storer, R. J. 3210: The flow of two adjacent plane supersonic jets past flat-plate wings. III.
- Störmer, Erling. 6145: Positive linear maps of operator algebras.
- Stout, E. L. 275: Two theorems concerning functions holomorphic on multiply connected domains.
- Strathdee, J. 3310: (with Kamefuchi, S.) A generalization of field quantization and statistics. II. Interacting fields.
- Stratonovič, R. L. 1316: Application of the theory of Markoff processes in optimal signal discrimination.
- Štraus, A. V. 4078: Spectral resolutions of symmetric operators.
- Straus, E. G. 6137: (with Motzkin, T. S.) Representation of a point of a set as sum of transforms of boundary points. 3576: (with Gordon, B. and Fraenkel, A. S.) On the determination of sets by the sets of sums of a certain order.
- Strauss, Walter. 1695: La décroissance asymptotique des solutions des équations d'onde non linéaires. 6047: (with Browder, Felix E.) Scattering for non-linear wave equations.
- Strazdin', I. = Strazdiņš, I.
- Strazdiņš, I. 1385: Symmetric l -ary functions. 1386: The renaming group of l -adic functions.
- Street, Robert E. 3202: Plane Couette flow by the method of moments.
- Strelie, Š. = Strelieas, Š.
- Strelie, Š. I. = Strelieas, Š.
- Strelieas, Š. 1617: On the maximum modulus of analytic functions of several variables. 1618: The growth of entire solutions of partial differential equations. 1619: Some properties of the maximum modulus of analytic functions of several complex variables. 1620: Some questions of the growth and existence of entire transcendental solutions of partial differential equations. 3852: On the growth of multiple-valued solutions of ordinary differential equations. 4946: Generalization to entire functions of several complex variables of the theorem of Wiman and Valiron.
- Stromberg, Karl R. 533: (with Hewitt, Edwin) A remark on Fourier-Stieltjes transforms.
- Strommer, J. 1868: Bemerkungen zu meiner Arbeit: "Ein Beitrag zur

- Konstruierbarkeit geometrischer Aufgaben in der hyperbolischen Ebene". 4124: Über die Begründung der elliptischen Geometrie.
- Strubecker, K. 631: Geometrie in einer isotropen Ebene. III. 4150: Über die Flächen von Monge und Serret im isotropen Raum.
- Struble, George W. 4342: Orthogonal polynomials: Variable-signed weight functions.
- Struble, Raimond A. 3118: Oscillations of a pendulum under parametric excitation. 3878: Resonant oscillations of the Duffing equation.
- Struminskii, V. V. 3177: On the non-linear theory of aerodynamic stability.
- Stryin, V. V. 3881: (with Krasnosel'skii, M. A.) Calculation of the rotation of completely continuous vector fields associated with the problem of periodic solutions of differential equations. 6368: (with Levin, A. Ju.) On the rate of convergence of the Newton-Kantorovič method.
- Stuart, Alan. 6317: Gamma-distributed products of independent random variables.
- Stuart, G. W. 4026: (with Rosenbluth, M. N. and Pearlstein, L. D.) Collective electron instability in a bounded region.
- Stulov, V. A. 3466: On the definition and classifications of codes.
- Stündel, Dieter. 6168: Über die endlichen Bewegungen einer Geraden im Raum.
- Stupčenko, E. V. 4960: (with Predvoditelev, A. S.; Plešakov, A. S.; Samullov, E. V. and Roždественnik, I. B.) ★Tables of thermodynamic functions of air.
- Sturgis, H. E. 1359: (with Shepherdson, J. C.) Computability of recursive functions.
- Su, Buchin. 2894: Contributions to the theory of conjugate nets in projective hyperspace. II. 2896: Contributions to the theory of conjugate nets in projective hyperspace. IV. 2895: (with Wang, Chia-leng) Contributions to the theory of conjugate nets in projective hyperspace. III.
- Subbankulov, M. A. 1745: Tauberian theorems with remainder term.
- Subrahmanyam, N. V. 3567: An extension of Boolean lattice theory.
- Sucher, J. 4512: (with Fong, R.) Rotational invariance and the S matrix in nonrelativistic quantum mechanics.
- Sucheston, L. 1982: An ergodic application of almost convergent sequences.
- Suchy, Kurt. 3183: Calculation of collision integrals in the moment equations.
- Sudakov, V. N. 2602: On quasi-invariant measures in linear spaces.
- Sudarshan, E. C. G. 3315: Equivalence of semiclassical and quantum mechanical descriptions of statistical light beams. 3316: The nature of the axioms of relativistic quantum field theory. II. 213: (with Bansal, R. K.) Reduction of Cartesian tensors and its application to stochastic dynamics. 2269: (with Bhattacharjee, A.) A class of solvable potentials. 1124: (with Currie, D. G. and Jordan, T. F.) Relativistic invariance and Hamiltonian theories of interacting particles.
- Sugawara, Masao. 4523: (with Tubis, Arnold) Phase representation of analytic functions.
- Sugiyama, Hiroshi. 951: (with Joh, Kenzo) Some probabilistic methods for numerical analysis in case of boundary value problems of partial differential equations. I.
- Sugiyama, Shohel. 418: On the existence of periodic solutions of difference-differential equations. 419: A note on difference-differential equations with a parameter. 2698: Dependence properties of solutions on the retardation and initial values in the theory of difference-differential equations. 2699: A note on the existence of solutions of difference-differential equations.
- Šugurov, V. K. = Šugurovas, V.
- Šugurovas, V. 5558: (with Kalade, Ju. A. and Janavičius, A. I.) Elimination of the motion of the center of mass in a system of identical particles.
- Suhanov, A. D. 2282: On the interaction Hamiltonian in quantum field theory. 3293: Tomonaga-Schwinger equation in the Bogolyubov method. 3294: The problem of "surface" divergences in the Bogolyubov method. 4540: On the problem of "surface" divergences.
- Suits, Nobuyuki. 281: A distortion theorem of univalent functions related to symmetric three points.
- Sujarso, A. M. 4982: (with Kukles, I. S.) On the generalized Frommer method.
- Sukhanov, A. D. = Suhanov, A. D.
- Sulanke, Rolf. 707: Die Verteilung der Sehnenlängen an ebenen und räumlichen Figuren. 6190: (with Rényi, A.) Über die konvexe Hülle von n zufällig gewählten Punkten.
- Suleimanov, N. M. 473: A study of the solution of the Cauchy problem for an infinite system of linear differential equations in the hyperbolic case and for systems well-posed in the sense of Petrovsky. 5143: Well-posed boundary-value problems for operator equations in a half-space in the class of (abstract) generalized functions.
- Sul'geifer, E. G. 2451: On the general theory of radicals in categories. 2452: The lattice of ideals of an object of a category. 2453: Tame imbeddings of categories.
- Sulhanišvili, G. I. 6409: Solution of the generalized Riquier problem by the grid method.
- Sullivan, R. D. 5447: (with Donaldson, C. duP. and Hayes, W. D.) Linearized pressure distributions with strong supersonic entropy layers.
- Sul'man, S. G. 2184: On the influence of creep on the stress state of a composite triangular profile.
- Sumi, Yoshio. 3337: (with Matumoto, Ken-iti; Sawada, Shoji and Yonezawa, Minoru) Mass formula in the Sakata model.
- Summerfield, G. C. 5535: (with Zweifel, P. F.) Slow neutron scattering, the "scattering law", and $G(r, t)$.
- Summersbee, S. 1374: (with Walters, A.) Programming the functions of formal logic.
- Sun, Tze-Chien. 5282: A central limit theorem for non-linear functions of a normal stationary process.
- Sun, Yong-sheng = Sun, Yung-sheng.
- Sun, Yung-sheng. 2773: On best approximation and best linear approximation of convolutions of periodic functions. 3996a: On the best approximation of periodic differentiable functions by trigonometric polynomials. 3996b: On the best approximation of periodic differentiable functions by trigonometric polynomials.
- Sunahara, Yoshifumi. 3460: (with Sawaragi, Yoshikazu and Nakamizo, Takayoshi) Equivalent linearization analyses of non-linear control systems with a non-stationary random input. 2378: (with Sawaragi, Yoshikazu and Soeda, Takaaki) Time-dependent probability distribution of the non-stationary response of nonlinear control systems. 3459: (with Sawaragi, Yoshikazu; Nakamizo, Takayoshi and Hirakawa, Kenzi) Statistical analyses of control systems containing a non-linear element with hysteresis characteristic.
- Sunakawa, Sigenubu. 3357: (with Nakatani, Hiroshi and Yoko-o, Yoshimatsu) Collective description of a system of interacting Bose particles. II. 3356: (with Yoko-o, Yoshimatsu and Nakatani, Hiroshi) Collective description of a system of interacting Bose particles. I.
- Sunouchi, Gen-ichirō. 2775: On the saturation and best approximation.
- Sunyer Balaguer, F. 4922: Canonical products for holomorphic functions in a half-strip.
- Supnick, Fred. 3589: (with Cohen, Herman J.) Concerning real numbers whose powers have nonintegral differences. 5057: (with Quintas, Louis V.) Semi-homogeneous functions. 2339: (with Solinger, Jacob) An extremal production-line problem.
- Suprunenko, D. A. 1504: On reducible matrix groups. 2560: On periodic linear groups. 2561: A class of solvable Sylow π -subgroups of the full linear group. 4861a: ★Solvable and nilpotent linear groups. 4861b: ★Soluble and nilpotent linear groups. 5534: (with Apatenok, R. F.) Nilpotent irreducible matrix groups over a finite field. 4860: (with Platonov, V. P.) On a theorem of Schur.
- Šur, M. G. 817: On the law of large numbers for Markov processes. 1690: The Martin boundary for a linear, elliptic, second-order operator.
- Surányi, János. 95: On the proofs of the fundamental theorem of number theory.

- Suranyi, P. 6523: On the leading singularity in the angular momentum plane in perturbation theory.
- Surovina, K. P. 5444: A modified stream function in one-dimensional unsteady non-isentropic plane flows.
- Suryanarayana, D. 5720: On odd perfect numbers. II.
- Suryaprakasara, U. 2226: The response of laminar skin friction, temperature and heat transfer to fluctuations in the stream velocity in the presence of a transverse magnetic field. II.
- Suschow, D. K. 484: On a class of singular solutions of the Euler-Poisson-Darboux equation. 495: Bemerkungen zu meiner Arbeit: "Verallgemeinerte Ausstrahlungslösungen der Wellengleichung bei beliebiger Dimensionszahl".
- Suschow, Dietrich = Suschow, D. K.
- Sutajina, A. I. = Sutajina, A. I.
- Sutajina, A. I. 4423: (with Ogurcov, K. I. and Pahomenko, L. S.) Some exact and approximate solutions of dynamic problems in the theory of elasticity.
- Sutov, Z. G. 225: Homomorphisms of the semigroup of all partial transformations. 229: Homomorphisms of certain semigroups of continuous functions. 1526: Homomorphisms of the semigroup of all near-identity mappings. 2571: Homomorphisms of certain semigroups of continuous monotonic functions. 3723: On a certain semigroup of one-to-one transformations. 4884: Semigroups with ideal subsemigroups.
- Suvalov, I. A. 1261: Antisymmetry and its concrete modifications. 5831: Limit groups of double antisymmetry.
- Suvorov, G. D. 3906: Univalent mappings of plane domains and sets of prime ends of a domain of generalized measure zero.
- Suyemoto, L. 5948: (with Waltman, P.) Extension of a theorem of A. Wintner.
- Suzuki, Haruo. 6269: Hopf space mod 4.
- Suzuki, Jingoro. 4205: Some properties of completely normal and collectionwise normal spaces.
- Suzuki, Michio. 2548: Two characteristic properties of (ZT) -groups.
- Suzuki, Noboru. 4093: Extensions of rings of operators on Hilbert spaces. 4094: (with Saitô, Teishirô) On the operators which generate continuous von Neumann algebras.
- Suzuki, Satoshi. 2523: Some results on Hausdorff m -adic modules and m -adic differentials.
- Suzuki, Terunobu. 839: Table for waiting system with a full availability (infinite sources).
- Suzuki, Yasutaka. 2264: (with Ishii, Katsuyuki) Normalized eigenfunction for linear potential problem.
- Švare, A. Š. 1963: The genus of a fibre space. 4046: Functors in categories of Banach spaces. 4233: The genus of a fibred space.
- Švareman, E. E. 4948: (with Rožanskaja, N. N.) Polynomial bases in the space of analytic functions of two variables.
- Švec, Alois. 5199: Contact of systems of subgroups of a Lie group.
- Švedov, I. A. 4202: Projection spectra.
- Sveinikov, A. G. 2250: On the proof of a method of calculation for irregular wave-guides. 5492: Justification of the method of calculating the propagation of electromagnetic oscillations in irregular waveguides. 5493: (with Il'inakii, A. S.) Calculation of waveguide transition of composite form.
- Swamy, P. S. 6333: On the amount of information supplied by truncated samples of grouped observations in the estimation of the parameters of normal populations.
- Swan, P. 3281: On the use of the Born approximation for small phase-shifts at low energies.
- Swan, Richard G. 3693: The Grothendieck ring of a finite group.
- Swanson, C. A. 1648: Asymptotic estimates for limit point problems. 2716: Asymptotic variational formulae for eigenvalues.
- Sward, G. L. 5387: (with Dunham, B. and Fridshal, R.) A non-heuristic program for proving elementary logical theorems.
- Świerczkowski, S. 5861: (with Macbeath, A. M.) Measures in homogeneous spaces.
- Swift, A. R. 6521: (with Lee, B. W.) On the mathematical structure of the multiperipheral equation. 4548: (with Lee, Benjamin W.) Complex angular momentum in spinor Bethe-Salpeter equation.
- Syed, A. 1149: Reduction of S -matrix elements.
- Sylvester, Richard J. 3651: (with Cord, Marian S.) The property of cross-symmetry.
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- Szász, Paul. 1867: Über die Rektifikation von Kurvenbogen im Poincaréschen Kreismodell der hyperbolischen Geometrie der Ebene.
- Szeczka, R. H. 2993: (with Hsiang, W. C.) On the embeddability and nonembeddability of certain parallelizable manifolds.
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- Sz.-Nagy, Béla. 1842: Un calcul fonctionnel pour les opérateurs linéaires de l'espace hilbertien et certaines de ses applications.
- Szodoray, Erzsébet. 4779: The abstract relation of dependence and its equivalents.
- Szűcs, P. 124: Über einen Kusminischen Satz. 3584: Verallgemeinerung und Anwendungen eines Kusminischen Satzes. 3585: Über die metrische Theorie der diophantischen Approximation. II.
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- mentary particles. I. 1203: (with de Broglie, Louis; Halbwachs, Francis; Hillion, Pierre and Vigier, Jean-Pierre) Space-time model of relativistic extended particles in Minkowski space. II. Free particle and interaction theory. 1202: (with de Broglie, Louis; Bohm, David; Hillion, Pierre; Halbwachs, Francis and Vigier, Jean-Pierre) Rotator model of elementary particles considered as relativistic extended structures in Minkowski space.
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- Teleman, Costake. 1959: Généralisation simultanée des groupes d'homologie et des groupes d'homotopie. 6219: Sur les groupes des mouvements d'un espace de Riemann.
- Teleman, Silviu. 5867: Contribution à l'analyse harmonique sur un groupe topologique quelconque.
- Teljakovskii, S. A. 2777a: Norms of trigonometrical polynomials and approximation of differentiable functions by averages of their Fourier series. I. 2777b: Norms of trigonometric polynomials and approximation of differentiable functions by linear averages of their Fourier series. II. 3995: On norms of trigonometric polynomials and approximation of differentiable functions by linear averages of their Fourier series. I.
- Temko, K. V. 1614: On equilibrium potential, convex capacity and the uniqueness of trigonometric series. 1615: On convex capacity.
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- Thomas, E. S., Jr. 1816: (with Isbell, J. R.) Mazur's theorem on sequentially continuous linear functionals.
- Thomas, Emery. 2996: On the cohomology groups of the classifying space for the stable spinor group. 1955: (with Browder, William) On the projective plane of an H -space. 4231: (with James, I. M.; Toda, H. and Whitehead, G. W.) On the symmetric square of a sphere.
- Thomas, Ivo. 2395: Finite limitations on Dummett's LC.
- Thomas, J. B. 1974: (with Wong, E.) On polynomial expansions of second-order distributions. 2071: (with Zadeh, L. A.) Note on an integral equation occurring in the prediction, detection, and analysis of multiple time series.
- Thomas, J. M. 2656: (with Carlitz, L.) Rational tabulated values of trigonometric functions.
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- Troitskii, V. A. = Troickii, V. A.
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- Tseitlin, B. M. = Ceitlin, B. M.
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- $$\frac{dx}{dt} = \sum_{0 \leq i+j \leq 2} a_{ij}x^i y^j, \quad \frac{dy}{dt} = \sum_{0 \leq i+j \leq 2} b_{ij}x^i y^j.$$
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- Tung, F. 5656: (with Wang, P. K. C.) Analysis of linear distributed systems with random parameters and inputs.
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- Uchiyama, Saburō. 1432: A note on the sieve method of A. Selberg. 1433: (with Uchiyama, Miyoko) A characterization of uniformly distributed sequences of integers.
- Udalo, A. S. 5181: Theory of curves in a higher-dimension projective space and its application to linear differential equations.
- Udeschini Brinis, Elisa. 3114: Sul moto di un punto vincolato a superficie mobile e scabra.
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- Uhlenbeck, G. E. 4606: Selected topics in statistical mechanics. 1241: (with Ford, G. W.) ★Lectures in statistical mechanics.
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- Ukhovskii, M. R. = Uhovskii, M. R.
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- Umegaki, Hisaharu. 602: On information in operator algebras. 1125: (with Nakamura, Masahiro) A note on the entropy for operator algebras. 1126: (with Nakamura, Masahiro) On von Neumann's theory of measurements in quantum statistics.
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- Urata, Yoshiro. 1771: A theorem of Bari on the completeness of orthonormal systems.
- Urban, Alois. 1902: A survey of Czech results in differential geometry by tensor methods. 6201: Sur l'équivalence de certains objets géométriques de même classe.
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- Urcelay, Jose Ma. = Urcelay, Jose Maria.
- Urcelay, Jose Maria. 2087: ★Contribution to the finding of formulae which are given empirically.
- Urich, Wolfgang. 2117: (with Albrecht, Rudolf) Numerical treatment of the initial value problem for systems of quasilinear partial differential equations of first order.
- Urseanu, V. 906: (with Mihoc, Gh.) ★Mathematical applications in statistics.
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- Utumi, Y. 5792: (with Faith, C.) On a new proof of Litoff's theorem.
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- Vaidya, A. M. 1430: A formula for the partitions of n into four parts.
- Vainberg, B. R. 6020: Some problems for hypo-elliptic equations which are well-posed in the entire plane.
- Vainberg, M. M. 4671: (with Trenogin, V. A.) The Ljapunov and Schmidt methods in the theory of non-linear equations and their subsequent development.
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- Veršinin, V. D. 4827: Relations between adjoints corresponding to elements of a determinant, and their application to invariance theory.
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- Vihmann, F. = Viehmann, F.
- Vilenkin, N. Ja. 4001: On a class of complete orthonormal systems. 4002: (with Agaev, G. N. and Dzafarli, G. M.) On the theory of multiplicative orthonormal systems of functions.
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- Ville, J. A. 5772: De l'inversion des matrices.
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- Vincze, E. 2748: Bemerkung zur Charakterisierung des Gauss'schen Fehlergesetzes. 2749: Eine allgemeinere Methode in der Theorie der Funktionalgleichungen. II. 6291: (with Hosszú, M.) Über den wahrscheinlichsten Wert.
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- Vinogradov, A. A. 2567: Remarks on the theory of partially ordered groups and semigroups.
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- Vinokurov, V. R. 4030: Stability of the solution of an infinite system of algebraic equations obtained by approximating linear Volterra integral equations.
- Vinti, C. 2002: (with Baiada, E.) Generalizzazione non markoviana della definizione di perimetro.
- Virabjan, G. V. 465: On the resolvent of an operator. 1702: Spectral properties of operators generated by systems of differential equations of higher order and of Sobolev type.
- Visarion, V. 2171: (with Stănescu, C.) An investigation of the quasi-invariants of the static-geometric analogy for thin elastic shells.
- Vishik, M. I. 451: Solution of a system of quasilinear equations having a divergent form, under periodic boundary conditions. 452: Boundary-value problems for quasilinear strongly elliptic systems of equations having a divergent form. 2721: Quasilinear elliptic systems of equations containing subordinate terms. 5032: On the solvability of the first boundary-value problem for quasi-linear equations with coefficients of rapid growth in Orlicz classes. 6017: Quasi-linear strongly elliptic systems of differential equations of divergence form.
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- Vladimirov, V. S. 5036: An application of properties of domains of holomorphy to differential equations. 6123: On Bogoljubov's

- "edge of the wedge" theorem. 6579: Mathematical problems of the uniform-speed theory of transport.
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- Vlasov, V. F. 523: Some methods of approximating periodic functions by trigonometric polynomials.
- Vlasov, V. K. 6400: (with Bakušinskii, A. B.) The method of potentials and the numerical solution of the Dirichlet problem for the Laplace equation.
- Vlăduț, G. E. 1935: (with Stepanec, G. F.) A method of describing algorithmically the cyclic structure of a graph.
- Vodička, Václav. 376: Verallgemeinerung einer Schwarzschen Differentialgleichung. 4421: On forced vibrations of composite circular membranes. 5743: On an application of the expression $\alpha^* + \beta^*$.
- Voevodin, V. V. 2097: Some methods of solving a complete eigenvalue problem.
- Vogel, Kurt. 5672: (with Hunger, Herbert) ★Ein byzantinisches Rechenbuch des 15. Jahrhunderts.
- Vogel, Théodore. 1671: Solutions périodiques des systèmes héréditaires. 1672: Dynamique théorique et hérédité.
- Vogel, Walter. 1303: Lineare Programme und allgemeine Vertreter-systeme. 6623: Lineare Ungleichungen und lineare Programme.
- Vogler, Hans. 1884: Über die pseudorektifizierenden Torsen von Raumkurven.
- Volevič, L. R. 446: Local properties of solutions of quasi-elliptic systems.
- Volk, V. Ja. 4085: On the spectral decomposition for a class of non-selfadjoint operators.
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- Volpert, A. I. 331: The index of boundary value problems for systems of harmonic functions in three independent variables. 434: Boundary value problems for an elliptic system of second order linear differential equations in the plane. 5104: On the index of systems of higher-dimensional singular integral equations.
- Volpert, A. Ja. 2591: The equivalence of absolute continuity in the narrow sense and the Lipschitz condition for additive set functions.
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- Vorel, Zdeněk. 5496: (with Doležal, Václav) On some fundamental properties of Kirchhoff networks.
- Vorob'ev, A. P. 2019: Application of probability methods to the study of non-linear, lateral rolling of a ship. 3868: Construction of isochronous systems of two differential equations.
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- Voskresenskii, V. E. 150: Factor spaces of the idèle of an algebraic group and the cohomology of bundles.
- Voss, H. M. 1067: The effect of an external supersonic flow on the vibration characteristics of thin cylindrical shells.
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- Vranceanu, Gheorghe = Vranceanu, Georges.
- Vranić, Vladimir. 3054: On the use of duality in the theory of correlation.
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- Vvedenskaja, N. D. 4415: (with Šnol', E. E.) On a method of computing the stress in a circular cylinder.
- Výborný, Rudolf. 475: Über einige Eigenschaften der Lösungen von Randwertaufgaben einer parabolischen partiellen Differentialgleichung. 5921: (with Babuška, Ivo) Die Existenz und Eindeutigkeit der Dirichletschen Aufgabe auf allgemeinen Gebieten.
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- Wachspress, E. L. 921: Optimum alternating-direction-implicit iteration parameters for a model problem.
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- Wang, Mu-chiu. 407: (with Chang, Yung-shu and Li, Kun-yuan) On the stability of motion in a finite time.
- Wang, P. K. C. 5656: (with Tung, F.) Analysis of linear distributed systems with random parameters and inputs.
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- Wang, Yang-xian. 4867: (with Wan, Zhe-xian) On the automorphisms of symplectic groups over a field of characteristic 2.
- Wang, Yuan. 1424: On the representation of large integer as a sum of a prime and an almost prime. 1748: A note on interpolation of a certain class of functions. 5733: On the representation of large integer as a sum of a prime and an almost prime.
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- Warsi, Z. U. A. 6455: Boundary layer growth on a sphere.
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- Weeg, G. P. 3485: The structure of an automaton and its operation-preserving transformation group.
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- Weier, Joseph = Weier, Josef.
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- Weiss, Ján. 5530: Contribution to the method of finding the potential from the singularities of the Jost function.
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- Wentzel, J. S. = Ventsel, E. S.
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- Whittaker, James V. 737: On isomorphic groups and homeomorphic spaces.
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- Wilcox, Calvin H. 5488: The steady-state diffraction of electromagnetic radiation by an obstacle in an inhomogeneous anisotropic conducting medium.
- Wilcoxon, Frank. 6363: (with Rhodes, L. J. and Bradley, Ralph A.) Two sequential two-sample grouped rank tests with applications to screening experiments.
- Wild, Wolfgang. 1232: (with Maschke, Erich Karl) Zweiteilchen-Näherung für ein Fermionensystem mit anziehender Wechselwirkung.
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- in Grassmann manifolds. 4179: (with Griffiths, Phillip A.) Complete maps and differentiable coverings.
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- v. Wolfersdorf, L. 1720: Über eine partielle Differentialgleichung vom gemischten Typ.
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- Wong, W. J. 2562: Linear groups analogous to permutation groups.
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- Wortis, Michael. 5378: Bound states of two spin waves in the Heisenberg ferromagnet.
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- Wright, Fred H. 79: Boolean averages. 4066a: Generalized means. 4066b: Correction to "Generalized means".
- Wrigley, H. E. 2095: Accelerating the Jacobi method for solving simultaneous equations by Chebyshev extrapolation when the eigenvalues of the iteration matrix are complex.
- Wrona, W. 6231a: On multi-isotropic Finsler spaces. 6231b: A necessary and sufficient condition for the Finsler space with distant parallelism of line elements to be multi-isotropic. 6231c: Generalized F. Schur theorem in Finsler spaces.
- Wu, Fang. 2007: Some results about the queueing system $GI/E_k/1$. 5740: (with Yü, Ming-i) On the divisor problem for $d_3(n)$.
- Wu, T. Yao-tsu. 4440: (with Wang, D. P.) Small-time behavior of unsteady cavity flows.
- Wu, Tai Tsun. 1158: Quantization of the electromagnetic field.
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- Wu, Wen-Juan = Wu, Wen-chian.
- Wu, Wen-tsun. 751: On a theorem of Leray. 1311: On non-cooperative games with restricted domains of activities.
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- Xiong, Qing-lai = Hiong, K.-L.
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- Yagyu, Toshimasa. 4251: On deformations of cross-sections of a differentiable fibre bundle.
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- Yahya, S. M. 5810: Functors $S_n(A_1, A_2, \dots, A_n)$.
- Yajima, Takeshi. 1941: On the fundamental groups of knotted 2-manifolds in the 4-space.
- Yamada, Hisao. 2141: Real-time computation and recursive functions not real-time computable. 4395: Disjunctively linear logic nets.
- Yamada, Miyuki. 2573a: Inversive semigroups. I. 2573b: Inversive semigroups. II.
- Yamagata, Hideo. 6516: (with Ishihara, Tadashige) On distributions and spaces of sequences. III. On powers of the distributions. 6517: (with Ishihara, Tadashige) On distributions and spaces of sequences. IV. On generalized multiplication of distributions.
- Yamaguti, Kiyosi. 3677: On representations of Jordan triple systems.
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- Yasugi, Mariko. 2418: Intuitionistic analysis and Gödel's interpretation.
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- Yeh, J. 549: An almost everywhere existence theorem for solutions of Volterra functional equations.
- Yeh, Yen-ch'ien. 5963: A qualitative study of the integral curves of the differential equation
- $$\frac{dy}{dx} = \frac{q_{00} + q_{10}x + q_{01}y + q_{20}x^2 + q_{11}xy + q_{02}y^2}{p_{00} + p_{10}x + p_{01}y + p_{20}x^2 + p_{11}xy + p_{02}y^2}. \quad \text{II.}$$
- Uniqueness of limit cycles. 5962: (with He, Chong-you; Wang, Ming-shu; Xu, Ming-wei and Luo, Ding-jun) A qualitative study of the integral curves of the differential equation
- $$\frac{dy}{dx} = \frac{q_{00} + q_{10}x + q_{01}y + q_{20}x^2 + q_{11}xy + q_{02}y^2}{p_{00} + p_{10}x + p_{01}y + p_{20}x^2 + p_{11}xy + p_{02}y^2}. \quad \text{I.}$$
- Yennie, D. R. 4555: (with Meister, N.) Radiative corrections to high-energy scattering processes.
- Yesberg, D. 5629: (with Aris, R.) Dynamic programming in counter-current systems.
- Yff, Peter. 627: An analogue of the Brocard points.
- Yim, B. 4467: (with Holt, M.) Supersonic flow past wedges of variable angle.
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- Yngström, S. 5598: (with Eriksson, K.-E.) A simple approach to the Schwarzschild solution.
- Yoho, M. 4381: (with Greenspan, D.) On the approximate solution of $\Delta u = F(u)$.
- Yoko-o, Yoshimatsu. 3356: (with Sunakawa, Sigenobu and Nakatani, Hiroshi) Collective description of a system of interacting Bose particles. I. 3357: (with Sunakawa, Sigenobu and Nakatani, Hiroshi) Collective description of a system of interacting Bose particles. II.
- Yokoyama, Kan-ichi. 1205: (with Shimazu, Haruo) A theory of elementary particles with internal degrees of freedom.
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- Yood, Bertram. 1848: On the extension of modular maximal ideals. 5140: Noncommutative Banach algebras and almost periodic functions.
- Yorinaga, Masataka. 2686: A stroboscopic method for the critical case where the Jacobian vanishes. 5001: Bifurcation of a periodic solution of van der Pol's equation with the harmonic forcing term.
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- Young, G. S. 309: Types of ambiguous behavior of analytic functions. II.
- Young, L. C. 2609: Some extremal questions for simplicial complexes. I. Polyhedral geodesic strips.
- Youngs, J. W. T. 1940: (with Auslander, Louis and Brown, Thomas A.) The imbedding of graphs in manifolds. 5247: (with Battle, Joseph; Harary, Frank and Kodama, Yukihiro) Additivity of the genus of a graph.
- Yue, Jing-zhong = Yüeh, Ching-chung.
- Yüeh, Ching-chung. 1951: Imbedding theory and cohomology of permutation groups. I. General theory. 1952: Imbedding classes and cohomology operations.
- Yüeh, Ming-i. 5740: (with Wu, Fang) On the divisor problem for $d_2(n)$.
- Zaanen, A. C. 5119a: (with Luxemburg, W. A. J.) Notes on Banach function spaces. III. 5119b: (with Luxemburg, W. A. J.) Notes on Banach function spaces. IV.
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- Zackrisson, Uno. 2033: ★A study of truncation and censoring with economic subsidiary conditions.
- Zacks, S. 3057: On a complete class of linear unbiased estimators for randomized factorial experiments. 4326: (with Ehrenfeld, S.) Optimal strategies in factorial experiments.
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- Zalgaller, V. A. 1911: (with Aleksandrov, A. D.) Two-dimensional manifolds of bounded curvature. (Foundations of the intrinsic geometry of surfaces).
- Zamanov, T. A. 5099: Dynamical systems and one-parameter groups of operators in Fréchet spaces.
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- Ze Phen, Kim. See Kim Ze Phen.
- Zeeman, E. C. 2980a: Dihomology. I. Relations between homology theories. 2980b: Dihomology. II. The spectral theories of a map. 2980c: Dihomology. III. A generalization of the Poincaré duality for manifolds. 6275: On the dunce hat.
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- Železnov, E. I. 5963: Sufficient conditions for the existence of limit cycles.
- Zeller, Karl. 1892: (with Wilansky, Albert) A biorthogonal system which is not a Toeplitz basis.
- Žemaitis, Z. 4727a: The physical and mathematical sciences in the old Vilnius University (1579-1832).
- Zemanian, A. H. 2084: (with Matkowsky, B. J.) A contribution to root-locus techniques for the analysis of transient responses.
- Zeragija, D. P. 5103: On the variational theory of non-linear equations.
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- Ziegler, Hans. 3381: Die statistischen Grundlagen der irreversiblen Thermodynamik. 992: (with Wehrli, Christof) Einige mit dem Prinzip von der größten Dissipationsleistung verträgliche Stoffgleichungen.
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- Zirakadeh, A. 621: The generalized Pythagorean theorem in the n -dimensional Euclidean space.
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- Žitomirskij, I. S. 3024: On the distribution function of the first exit time.
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- Žičialvili, L. V. 534: Some questions in the theory of formal multiplication of trigonometric series. 1777: The convergence of double Fourier-Lebesgue series and double Hilbert transforms.
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- Zolotarev, G. N. 3945: On the uniqueness of the solution of Cauchy's problem for systems parabolic in the sense of I. G. Petrovskij.
- Zolotarev, V. M. 787: A probability problem. 1973: (with Koroljuk, V. S.) On a conjecture of B. V. Gnedenko.
- Žongolovič, I. D. 3837: (with Sabanina, T. B.) ★Five-place tables of $\operatorname{tg}(x/2)$ and $\operatorname{tg}^2(x/2)$.
- Zubov, V. I. 1679: ★Mathematical methods for the study of automatic control systems. 2802: Ergodic classes of recurrent motions. 2803: On the theory of recurrent functions. 5015: On the analytic construction of regulators.
- Zubova, A. F. 5985: Oscillations and stability of solutions of second-order equations.
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- Žuravskij, V. S. 1498: On the splitting of certain mixed abelian groups. 4856: The group of abelian extensions of a periodic abelian group by a torsion-free abelian group.
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- Zwanziger, Daniel. 4559: Unstable particles in S -matrix theory. 5553: Representations of the Lorentz group corresponding to unstable particles.
- Zweifel, P. F. 5535: (with Summerfield, G. C.) Slow neutron scattering, the "scattering law", and $G(r, t)$.
- Zygmund, A. 1542: (with Calderón, A. P.) On the differentiability of functions which are of bounded variation in Tonelli's sense.
- Zykin, G. P. 5682: Remark on a theorem of Hao Wang.
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American Mathematical Society, Symposia in Pure Mathematics. 1338: ★Proceedings of Symposia in Pure Mathematics. Vol. VII: Convexity.

American Mathematical Society Translations. 1: ★American Mathematical Society Translations. Series 2, Vol. 21: 9 papers on topology, Lie groups, and differential equations. 1336: ★American Mathematical Society Translations. Series 2, Vol. 26: 17 papers on analysis. 1337: ★American Mathematical Society Translations. Series 2, Vol. 27: 18 papers on algebra. 3489: ★American Mathematical Society Translations. Series 2, Vol. 28: 16 papers on analysis. 3490: ★American Mathematical Society Translations. Series 2, Vol. 29: 12 papers on logic and differential equations. 4721: ★American Mathematical Society Translations. Series 2, Vol. 30: 10 papers on topology.

Applications of digital computers. 2136: ★Applications of digital computers.

Bourbaki, N. 1339: ★Séminaire Bourbaki, 13ième année: 1960/61. Textes des conférences. Exposés 205 à 222.

Brandeis Summer Institute. 1109: ★Lectures in theoretical physics. Vol. 1. 1199: ★Elementary particle physics and field theory. 3367: ★Statistical physics.

Calcutta Mathematical Society. 3486a: ★Calcutta Mathematical Society Golden Jubilee Commemoration Volume (1958-1959). Part I. 3486b: ★Calcutta Mathematical Society Golden Jubilee Commemoration Volume (1958-1959). Part II.

Cargèse Lectures in Theoretical Physics. 3270: ★1962 Cargèse Lectures in Theoretical Physics.

Celebrazioni Archimedee del Sec. XX (Siracusa, 1961). 4: ★Celebrazioni Archimedee del Sec. XX, 11-16 aprile 1961. Vol. I, Parte I, II: Conferenze generali e Simposio di geometria differenziale. 5: ★Celebrazioni Archimedee del Sec. XX, 11-16 aprile 1961. Vol. II: Simposio di analisi.

Colloquium on Concepts and Role of the Model . . . , Utrecht, 1960. 1342: ★The concept and the role of the model in mathematics and natural and social sciences.

Colloquium über Schaltkreis- und Schaltwerk-Theorie. 1332: ★Colloquium über Schaltkreis- und Schaltwerk-Theorie vom 26. bis 28. Oktober 1960 in Bonn. Vortragsauszüge.

Contributions to Differential Equations. 4722: ★Contributions to Differential Equations. Vol. I.

Dictionaries. 15: ★English-Russian dictionary of mathematical terms.

Distribution and Motion of Interstellar Matter in Galaxies. 5605: ★The distribution and motion of interstellar matter in galaxies.

English-Russian Dictionary. 15: ★English-Russian dictionary of mathematical terms.

Functional Analysis and its Applications. 560: ★Functional Analysis and its Applications.

Gas dynamics. 1036: ★Physical gas dynamics.

Grundzüge der Mathematik. 10: ★Grundzüge der Mathematik. Bd. III: Analysis.

Handbuch der Physik. 6562: ★Handbuch der Physik.

Hung-Ching Chow Sixtieth Anniversary Volume. 6: ★Hung-Ching Chow Sixtieth Anniversary Volume.

Hungarian problem book. 1341a: ★Hungarian problem book. I. 1341b: ★Hungarian problem book. II.

International Atomic Energy Agency Seminar. 3339: ★Theoretical physics.

International Union of History and Philosophy of Science. 1342: ★The concept and the role of the model in mathematics and natural and social sciences.

Laminar boundary layers. 5433: ★Laminar boundary layers.

Lectures in Applied Mathematics (Proc. Summer Seminar, Boulder, Colo., 1960). 1241: ★Lectures in statistical mechanics.

Mathematical methods for technologists. 3108: ★Mathematical methods for technologists.

Methods in computational physics. 3071: ★Methods in computational physics. Advances in research and applications. Vol. 1: Statistical physics.

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Problems of elementary particle physics. 4577: ★Problems of elementary particle physics.

Proc. 4th U.S. Nat. Congr. Appl. Mech. 7: ★Proceedings of the Fourth U.S. National Congress of Applied Mechanics. Vols. 1, 2.

Proc. Internat. Sympos. Non-linear Vibrations, 1961. 5972: ★Proceedings of the international symposium on non-linear vibrations. Analytic methods in the theory of non-linear vibrations. Vol. I.

Proceedings of the Fourth All-Union Mathematical Congress. 5666: ★Proceedings of the Fourth All-Union Mathematical Congress. Vol. I: Plenary lectures.

Proceedings of the Sixth All-Union Conference on the Theory of Probability and Mathematical Statistics. 5667: ★Proceedings of the Sixth All-Union Conference on the Theory of Probability and Mathematical Statistics.

Progress in Control Engineering. 4712: ★Progress in Control Engineering. Vol. 1.

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Statistical theory of reliability. 3442: ★Statistical theory of reliability.

Tables. 1629: ★Tables and formulae of sums of trigonometrical series of the form

$$\sum_{n=1}^{\infty} \frac{I_n(r)}{n^2 + a^2} \cos nx \text{ and } \sum_{n=1}^{\infty} \frac{n I_n(r)}{n^2 + a^2} \sin nx.$$

1630: ★Tables and formulae of sums of trigonometric series of the form

$$\sum_{n=1}^{\infty} \frac{J_n(r)}{n^2 + a^2} \cos nx \text{ and } \sum_{n=1}^{\infty} \frac{n J_n(r)}{n^2 + a^2} \sin nx.$$

3535: ★Tables of the Chebyshev polynomials $S_n(x)$ and $C_n(x)$.

4960: ★Tables of thermodynamic functions of air.

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University of Oklahoma Mathematical Tables Project. 2461: ★A table of indices and power residues for all primes and prime powers below 2000.

SUBJECT CLASSIFICATION

This is a list of headings, with code numbers, under which articles were classified during 1964. The headings in capital letters are essentially identical with those appearing in the 1964 monthly issues.

00. GENERAL

- 00 General mathematics
- 02 Other fields
- 04 Collections of papers
- 08 General textbooks and handbooks
- 10 Collections of formulas
- 20 Bibliographies
- 30 Dictionaries and other reference works
- 40 Reports of meetings
- 45 Mathematics as an occupation
- 50 Methodology and philosophy of mathematics
- Philosophy of science, general
- 60 Relation of mathematics with the humanities
- 70 Didactics
- 80 General popularizations
- 90 Recreational mathematics, miscellaneous

01. HISTORY AND BIOGRAPHY

- 05 Ancient
- 10 India, Far East, Maya, etc.
- 15 Medieval and Renaissance
- 20 17th century
- 25 18th century
- 30 19th century
- 35 20th century
- 40 Contemporary
- 50 Biographies, obituaries, personalia
- 60 Collected or selected works; reprintings or translations of classics
- 70 Source books

02. LOGIC AND FOUNDATIONS

- 15 Formalizing verbal reasoning
- 20 Syntax, semantics, deducibility
- 30 Propositional calculus: two-valued
- 32 Logical calculus: first-order, two-valued (functional calculus)
- 40 Logistic, axiomatic set theory, paradoxes
- 50 Many-valued logic, modal logic
- 60 Recursive function theory, Turing computability
- 70 Intuitionism
- 75 Axioms for mathematical systems
- 80 Metatheorems for mathematical systems
- 90 Undecidability, unsolvability in mathematical systems
- 95 Abstract automata theory (see also 94.90)

04. SET THEORY

- 15 Point sets
- 20 Relations
- 30 Transfinite numbers
- 35 Problem of the continuum
- 60 Combinatorial (partitions, etc.)

05. COMBINATORIAL ANALYSIS

- 10 Partitioning, subsets, etc.
- 20 Matrices, magic squares, block designs, configurations
- 30 Factorials, binomial coefficients, polynomials, power series
- 40 Graphs
- 50 Enumeration of graphs

06. ORDER, LATTICES

- 10 Total order
- 20 Partial order
- 30 Lattices

- 40 Modular lattices, continuous geometries
- 50 Distributive lattices
- 60 Boolean algebras and rings
- 70 Boolean algebras with operators

08. GENERAL MATHEMATICAL SYSTEMS

10. THEORY OF NUMBERS

- 005 Tables
- 01 Elementary
- 02 Divisibility and factorization
- 03 Arithmetical functions
- 04 General elementary theory of congruences; Diophantine equations of degree 1
- 05 Power residues and reciprocity laws, primitive roots, indices; general binomial congruences
- 06 Continued fraction, decimal and other algorithmic expansions
- 07 Combinatorial problems
- 08 Special integers (or rationals), special sequences of integers (or rationals)
- 09 Arithmetic properties of special functions; integer-valued polynomials
- 10 Diophantine equations
- 12 Polynomial Diophantine equations of degree 1
- 14 Fermat conjecture
- 16 Miscellaneous Diophantine equations (exponential, etc.)
- 18 Rational points on algebraic varieties
- 20 Diophantine approximation
- 25 Continued fractions
- 26 Distribution of digits (for any type of expansion)
- 28 Irrationality, transcendence
- 30 Forms
- 31 Linear forms
- 32 Quadratic and hermitian forms
- 34 Forms of degree 2
- 40 Geometry of numbers
- 42 Lattices; convex and other bodies
- 44 Products of linear forms
- 50 Exponential and power sums
- 52 Character sums
- 53 Lattice points
- 54 Turán's method
- 55 Modular and automorphic functions, forms, and groups
- 60 Multiplicative asymptotic theory
- 62 Zeta-function and other Dirichlet series
- 64 Character sums, asymptotic theory
- 65 Distribution of primes
- 70 Additive asymptotic theory
- 72 Sums of squares, Waring's problem
- 74 Partitions
- 75 Sequences of integers (additive bases, density theorems, etc.)
- 80 Probabilistic number theory
- 82 Distribution mod 1
- 84 Regular distribution
- 85 Arithmetic of hypercomplex numbers
- 90 Algebraic number theory
- 91 Quadratic fields
- 92 Cyclotomic fields
- 95 Class field theory
- 96 Algebraic function fields
- 97 p -adic fields
- 98 Finite fields

SUBJECT CLASSIFICATION

12. FIELDS AND POLYNOMIALS

- 20 Finite fields
- 30 Polynomials
- 40 Galois theory
- 50 Algebraic number fields
- 60 Algebraic function fields
- 70 Valuations, topological fields
- 80 Differential and difference algebra

14. ABSTRACT ALGEBRAIC GEOMETRY (for classical algebraic geometry, see 50.00)

- 10 Theories of equivalence
- 15 Transformations and correspondences
- 20 Curves
- 35 Algebraic properties of function fields
- 40 Arithmetical properties of varieties
- 45 Algebraic geometry over special fields or over rings; rationality questions
- 50 Group varieties, abstract analytic groups
- 52 Abstract derivations and differentials
- 55 Sheaf-theoretic and homological methods
- 60 Birational invariants, genera, etc.

15. LINEAR ALGEBRA

- 05 Vector spaces
- 15 Linear inequalities
- 20 Inequalities involving eigenvalues and eigenvectors
- 25 Miscellaneous inequalities involving matrices
- 30 Eigenvalues and eigenvectors
- 33 Canonical forms, reductions
- 36 Linear sets of linear transformations
- 38 Matrix equations and identities
- 39 Invariants
- 40 Multilinear algebra
- 48 Determinants
- 49 Permanents
- 50 Linear equations, matrix inversion

16. ASSOCIATIVE RINGS AND ALGEBRAS

- 10 Ideal theory
- 15 Commutative ideal theory
- 20 General commutative theory
- 24 Polynomials
- 26 Formal power series
- 28 Local rings
- 30 Division rings, simple rings and algebras
- 40 Radical theory
- 45 Rings with chain condition
- 50 Linear representations of rings and algebras (including orders)
- 60 Modules
- 70 Galois theory
- 80 Ordered rings
- 90 Topological rings
- 95 Semi-rings, etc.

17. NON-ASSOCIATIVE RINGS AND ALGEBRAS

18. HOMOLOGICAL ALGEBRA

20. GROUP THEORY AND GENERALIZATIONS

- 10 Free groups, relations
- 14 General products of groups
- 16 Group extensions
- 20 Permutation groups
- 25 Finite groups (including finite abelian)
- 28 Burnside problem, conditions for finiteness
- 30 Abelian groups, general theory
- 40 Nilpotent, solvable, p -groups
- 45 Groups with local properties
- 50 Lattices of subgroups

- 55 Special subgroups
- 60 Crystallographic and discrete geometric groups
- 65 Modular groups, discrete subgroups of classical groups
- 70 Classical groups
- 75 Linear groups, general
- 80 Representations, characters, group algebras
- 85 Representations of symmetric groups
- 88 Automorphisms and endomorphisms, groups with operators
- 90 Ordered groups, ordered semigroups
- 92 Semigroups
- 94 Groupoids
- 96 Quasigroups
- 98 Loops

22. TOPOLOGICAL GROUPS AND LIE THEORY

- 10 Topological groups
- 12 Haar measures
- 15 Topological algebras
- 40 Transformation groups
- 50 Lie groups
- 55 Classical groups
- 60 Representations and analysis
- 70 Homogeneous spaces (topology, differential geometry)
- 80 Lie algebras
- 90 Abstract Lie theory
- 95 Infinite Lie groups
- 99 Lie theory of differential equations

26. FUNCTIONS OF REAL VARIABLES

- 10 Foundations: limits and generalizations [elementary topology of the line (or plane) if used for real variables]
- 20 Calculus: elementary, advanced, etc.
- 21 Elementary functions
- 30 Continuity and related questions (modulus of continuity [if not used in boundary behaviour of analytic functions], discontinuities, etc.)
- 40 Differentiation: general theory
- 41 Non-differentiability (non-differentiable functions, points of non-differentiability), discontinuous derivatives
- 43 Generalized derivatives, derivatives of fractional order
- 47 Mean-value theorems
- 50 Monotonic functions, general
- 51 Functions of bounded variation; absolute continuity
- 52 Convexity; generalizations
- 53 Generalized monotonic functions
- 55 Several variables, implicit function theorems, Jacobians. Transformations with several variables
- 56 Length, area, volume
- 60 Polynomials
- 70 Inequalities (of a general and miscellaneous character)
- 80 Real-analytic functions
- 81 Quasi-analytic classes of real functions, functions of class C^∞
- 85 Superposition of functions

28. MEASURE AND INTEGRATION

- 10 Measurable sets, general: Borel fields, non-measurable sets
- 12 Analytic and Suslin sets
- 13 Finitely additive set functions, measures; generalizations
- 15 Special and generalized measures, Carathéodory theory of measure
- 17 Transfinite diameter and capacity. Hausdorff measures and capacities
- 20 Measurable and non-measurable functions
- 25 Integration, general
- 26 Riemann integral, Lebesgue integral, Denjoy integral, etc.
- 30 Measure-preserving transformations
- 31 Invariant measures
- 32 Ergodic theorems
- 33 Dynamical systems
- 40 Length, area, volume
- 41 Other geometric measure theory

SUBJECT CLASSIFICATION

30. FUNCTIONS OF A COMPLEX VARIABLE

- 01 General questions, foundations
- 02 Monogenic properties of complex functions (also polygenic and areolar monogenic functions)
- 09 Inequalities in the complex domain
- 10 Polynomials
- 11 Zeros of polynomials
- 20 Power series
- 21 Behavior on the boundary of convergence. Overconvergence
- 24 Dirichlet series
- 25 Continued fractions
- 28 Analytic continuation
- 30 Sequences and series of analytic functions; uniform convergence, normal families, normal functions
- 35 Integration; integral representations; Cauchy integral, Poisson and Poisson-Stieltjes integrals
- 36 Moment problems; interpolation problem
- 40 Conformal mapping, general theory
- 41 Capacity, harmonic measure
- 42 Univalent and p -valent functions
- 43 Coefficient problems
- 45 Riemann surfaces, uniformization
- 46 Algebraic functions, Abelian integrals
- 47 Quasiconformal mapping
- 49 Automorphic functions and modular functions
- 50 Maximum principle. Schwarz's lemma, Phragmén-Lindelöf theorems
- 52 Extremal problems in complex domain
- 55 Entire functions
- 60 Meromorphic functions, general theory
- 61 Distribution of values, Picard-type theorems, Nevanlinna theory, defect (deficiency) theory
- 62 Theory of cluster sets, prime ends, boundary behavior
- 65 Bounded functions, positive real part, Blaschke products
- 66 Bounded mean modulus, bounded characteristic
- 67 H_p classes and other restrictions
- 70 Approximation by polynomials and rational functions, Faber polynomials
- 75 Boundary-value problems, Dirichlet problem
- 77 Special boundary-value problems; Riemann-Hilbert problem. Inverse boundary problems
- 79 Algebroid functions
- 80 Topological function theory, functions topologically equivalent to analytic mappings
- 81 Generalized analytic mappings. Pseudo-analytic functions of Bers, Vekua, etc.
- 83 Functions of hypercomplex variables and generalized variables
- 85 Spaces of analytic functions
- 86 Kernel function and applications
- 87 Algebras of analytic functions

31. POTENTIAL THEORY

- 10 Harmonic functions in the plane
- 11 Harmonic functions, general
- 15 Subharmonic, superharmonic functions
- 20 Boundary-value problems, Dirichlet problem
- 21 Capacity and harmonic measure
- 22 Generalized capacity and potential
- 30 Biharmonic and polyharmonic functions and equations
- 35 Poisson's equation

32. SEVERAL COMPLEX VARIABLES

- 02 Foundations, general questions
- 10 Multiple power series, formal theory
- 15 Analytic and meromorphic curves
- 20 Holomorphic mappings, domains of holomorphy, analytic spaces (see also 87.00)
- 25 Automorphic functions
- 30 Approximation theorems

33. SPECIAL FUNCTIONS

- 04 Number-theoretic functions, special sequences

- 05 Tables of special functions
- 10 Exponential and trigonometric functions
- 15 Gamma and Beta functions
- 17 Error function, probability integral
- 19 Elliptic functions and integrals
- 20 Hypergeometric functions
- 21 F -functions
- 25 Cylindrical functions; Bessel functions
- 27 Spherical functions; Legendre polynomials and functions, spherical harmonics, ultraspherical polynomials
- 28 Lamé, Mathieu, spheroidal wave functions
- 30 Wave functions
- 32 Gegenbauer functions
- 40 Orthogonal polynomials, general (Chebyshev, Hermite, Jacobi, Laguerre polynomials and functions)

34. ORDINARY DIFFERENTIAL EQUATIONS

- 02 Solutions in closed form; integration by quadratures; reduction of differential equations
- 03 Operational calculus
- 04 General existence and uniqueness theorems, Picard approximations and generalizations
- 07 Continuous dependence of solution on parameter
- 10 Analytic theory
- 20 Linear equations and systems, general coefficients
- 21 Linear equations with constant coefficients
- 22 Linear equations with periodic and almost periodic coefficients
- 30 Boundary-value problems, linear equations
- 31 Sturm-Liouville theory
- 32 Eigenvalues, eigenfunctions
- 33 Eigenfunction expansions
- 34 Asymptotic properties of eigenfunctions
- 36 Boundary-value problems, non-linear
- 40 Qualitative theory of first- and second-order equations and systems; singular points and limit cycles
- 41 Periodic and almost periodic solutions
- 42 Non-linear oscillations
- 43 Stability of first- and second-order equations and systems
- 50 Qualitative theory of equations and systems of order greater than 2; asymptotic behavior of solutions
- 51 Stability; periodic and almost periodic solutions
- 53 Perturbations
- 54 Singular perturbations; small parameter with highest derivative
- 60 Stochastic differential equations
- 65 Dynamical systems, systems on manifolds
- 70 Equations and systems of infinite order
- 75 Difference-differential equations
- 76 Solution by finite differences
- 80 Differential equations in Banach and other spaces
- 85 Optimal control problems

35. PARTIAL DIFFERENTIAL EQUATIONS

- 05 General properties of solutions, Cauchy-Kowalewski theorems, etc.
- 10 First-order equations and systems
- 12 Classification of equations and systems
- 13 Exact equations and integrable systems. Pfaffian equations
- 15 Characteristics
- 20 Separation of variables, elementary properties of the equations of mathematical physics
- 30 Elliptic equations and systems of first and second order
- 31 Strongly elliptic systems
- 32 Quasi-linear elliptic equations and systems
- 33 Schrödinger equation, wave equation
- 34 Maxwell's equations, Helmholtz equation
- 35 Spectral analysis, eigenfunctions, operators
- 36 Elliptic systems and equations of higher order
- 37 Biharmonic equation
- 40 Hyperbolic equations and systems of second order
- 41 Quasi-linear hyperbolic systems and equations of second order

SUBJECT CLASSIFICATION

- 45 Hyperbolic equations and systems of higher order
Parabolic equations of second order
 - 55 Equations of mixed type and second order
Mixed type, order higher than two
Non-linear equations and systems
 - 62 Approximation of solutions
Solution by finite differences
 - 65 Special equations: Navier-Stokes, etc.
 - 70 Asymptotic properties
 - 75 Infinite systems, equations of infinite order
Equations in Banach spaces and other spaces
39. FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS
- 10 Finite differences, general
 - 12 Solution of ordinary differential equations by finite differences
 - 13 Solution of partial differential equations by finite differences
 - 20 Difference equations
 - 30 Functional equations
40. SEQUENCES, SERIES, SUMMABILITY
- 10 Series and sequences of numbers, general
 - 11 Infinite products
 - 12 Continued fractions
 - 13 Convergence
 - 15 Multiple series and sequences
 - 20 Sequences and series of functions, convergence
 - 30 Summability, general methods
 - 31 Summability, matrix methods
 - 32 Cesàro summability
 - 33 Abel, Poisson summability
 - 35 Summability of double series
 - 40 Convergence and summability of integrals
 - 42 Tauberian theorems
41. APPROXIMATIONS AND EXPANSIONS
- 10 Interpolation
 - 15 Polynomial approximation
 - 17 Approximation by rational functions
 - 20 Approximate quadratures
 - 40 Rate of convergence, degree of approximation, best approximation
 - 41 Constructive theory of functions
 - 45 Approximation by smoothing integrals
 - 50 Asymptotic approximations
 - 55 Other methods of approximation
42. FOURIER ANALYSIS
- 05 Trigonometric polynomials
 - 06 Best approximation by trigonometric polynomials
 - 08 Trigonometric interpolation
 - 10 Fourier coefficients
 - 11 Convergence of Fourier series
 - 15 Orthogonal functions
 - 16 Expansions in orthogonal functions
 - 17 Completeness of sets of orthogonal functions
 - 18 Completeness, closure, spectral synthesis
 - 20 Summability of Fourier and generalized Fourier expansions
 - 25 Fourier transform
 - 26 Other Fourier-type transforms
 - 27 Trigonometric moment problems
 - 30 Almost periodic functions
 - 35 Positive definite functions
 - 40 Multiple Fourier series and integrals
 - 50 Abstract harmonic analysis
44. INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS
- 10 Laplace transform
 - 25 Convolution
- 28 General transforms
- 30 Special transforms: Legendre, Hilbert, etc.
- 32 Multiple transforms
- 40 Operational calculus
- 42 Operational calculus in several variables
- 50 Fractional derivatives and integrals
- 60 Moment problems
45. INTEGRAL EQUATIONS
- 10 Linear integral equations, general
 - 11 Fredholm equations
 - 12 Eigenvalue problems
 - 13 Volterra equations
 - 15 Singular equations
 - 20 Systems of linear equations
 - 30 Non-linear integral equations
 - 31 Singular non-linear equations
 - 40 Integro-differential equations
46. FUNCTIONAL ANALYSIS
- 10 Topological linear spaces (including normed spaces and Hilbert spaces)
 - 20 Partially ordered linear spaces
 - 30 Special function spaces
 - 40 Distributions
 - 50 Single linear operators in linear or partially ordered spaces
 - 60 Groups or semigroups of linear operators, representations of topological groups
 - 65 Rings of operators, group algebras, abstract topological algebras, and their representations
 - 70 Banach algebras of analytic functions
 - 80 Differential and integral operators
 - 90 Applications of functional analysis
49. CALCULUS OF VARIATIONS
50. GEOMETRY
- 05 Foundations
 - 10 Euclidean
 - 11 Triangles, tetrahedra
 - 12 Circles, spheres
 - 14 Constructions
 - 15 Descriptive geometry
 - 17 Analytic geometry
 - 20 Affine geometry, general
 - 25 Transformations
 - 30 Projective geometry, general
 - 35 Transformations
 - 38 Second-order loci
 - 40 Non-Euclidean geometry (i.e., hyperbolic or elliptic)
 - 46 Minkowski geometry
 - 48 Special geometries
 - 50 Classical algebraic geometry
 - 51 Foundations
 - 52 Transformations
 - 55 Curves
 - 56 Surfaces
 - 57 Abelian varieties, genera, integrals
 - 60 Finite geometries
 - 70 Projective planes
 - 80 Configurations
 - 90 Regular figures, divisions of space
 - 95 Paradoxical decompositions
52. CONVEX SETS AND GEOMETRIC INEQUALITIES
- 10 Convex polyhedra
 - 25 Convex curves
 - 30 Convex regions
 - 34 Helly-type theorems
 - 40 Extremum problems and geometric inequalities
 - 45 Packing and covering
 - 50 Distance geometries

SUBJECT CLASSIFICATION

53. DIFFERENTIAL GEOMETRY

- 01 Curves and surfaces in Euclidean spaces
- 04 Minimal surfaces
- 10 Affine differential geometry
- 20 Projective differential geometry
- 25 Conformal differential geometry
- 30 Non-Euclidean differential geometry
- 32 Other special differential geometries
- 35 Vector and tensor analysis
- 38 Spinor analysis
- 40 Differentiable manifolds (general theory), e.g., definitions, jets, tangent bundles
- 42 Differential invariants (local theory), geometric objects
- 45 Differential calculus (global theory); forms, currents, integration, tensor fields, etc.
- 50 Connections (general theory), including G -structures
- 55 Affine connections
- 60 Projective connections
- 65 Conformal connections
- 70 Local Riemannian geometry
- 72 Riemannian manifolds
- 75 Global surface theory (convex surfaces)
- 78 Lorentz metrics and generalizations
- 80 Kählerian connections and generalizations
- 85 Finsler spaces and generalizations (areal metrics)
- 90 Integral geometry
- 99 Other generalizations (G -spaces of Busemann, etc.)

54. GENERAL TOPOLOGY

- 10 Axiomatics; generalizations of topological spaces
- 20 General topological spaces
- 21 Convergence notions
- 22 Compactness and generalizations
- 23 Compactifications, other extensions
- 24 Proximity spaces
- 25 Uniform spaces
- 26 Metric spaces, metrizability
- 27 Dimension theory
- 28 Mappings
- 29 Many-valued mappings
- 30 Continua
- 35 Topological semigroups, lattices, etc.
- 40 Topology of E_n , 2-manifolds
- 50 Topology of E_n , n -manifolds ($n > 2$)
- 60 Transformation groups
- 70 Topological dynamics
- 80 Fixed-point theorems, coincidence theorems, etc.

55. ALGEBRAIC TOPOLOGY

- 10 Graphs, map-coloring
- 20 Knots, links
- 30 Homology and cohomology theory
- 32 Sheaves
- 34 Cohomology (and homology) operations, Steenrod algebra
- 36 Periodic transformations, fixed points, coincidences (Smith theory)
- 38 Dimension theory
- 40 Homotopy theory, general
- 42 Algebra of mappings (including cohomotopy groups)
- 45 Computation of homotopy groups
- 50 Fiber spaces
- 52 Spectral sequences
- 60 Manifolds
- 62 Classification
- 64 Mappings
- 66 Generalized manifolds, local homology
- 68 Homotopy manifolds
- 70 Imbedding, immersion

57. TOPOLOGY AND GEOMETRY OF DIFFERENTIABLE MANIFOLDS

- 10 Differentiable structures, cobordism
- 20 Differentiable mappings, imbeddings, immersions, diffeomorphisms
- 30 Fiber bundles, tangent bundles
- 32 Characteristic classes
- 34 Topology of vector and tensor fields
- 36 Foliations
- 40 Topology of Lie groups
- 45 Topology of homogeneous spaces
- 50 Analysis on differentiable manifolds
- 60 Complex manifolds (also in several complex variables)
- 70 Infinite Lie groups, deformations

60. PROBABILITY

- 05 Foundations
- 10 Combinatorial probability theory
- 15 Geometric probability theory
- 20 Distributions
- 30 Limit theorems
- 40 Stochastic processes, general theory
- 45 Markov processes
- 48 Branching processes
- 50 Stationary processes
- 55 Random walks, Brownian motion
- 60 Queuing theory, telephone traffic, storage
- 62 Renewal theory
- 65 Other special processes
- 70 Random noise
- 90 Other applications

62. STATISTICS

- 05 Elementary descriptive statistics
- 10 Distributions of statistical functions
- 20 Estimation theory: parametric case
- 25 Testing of hypotheses: parametric case
- 30 Multivariate analysis, regression analysis
- 35 Order statistics
- 40 Non-parametric methods
- 50 Analysis of experiments
- 55 Design of experiments
- 60 Decision theory
- 65 Multistage decision procedures, sequential analysis
- 70 Statistical engineering, quality control
- 75 Life testing
- 80 Sampling surveys
- 85 Statistical analysis of stochastic processes, time series analysis
- 90 Applications

65. NUMERICAL METHODS

- 05 General mathematical methods, iteration
- 15 Monte Carlo methods
- 20 Interpolation, smoothing, least squares, curve fitting, approximation of functions
- 25 Computation of special functions, series, integrals
- 30 Mathematical programming
- 35 Linear equations, determinants, matrices
- 40 Eigenvalues, eigenvectors, Rayleigh-Ritz method
- 50 Solution of algebraic and transcendental equations and systems
- 55 Numerical differentiation and integration, mechanical quadrature
- 60 Ordinary differential equations
- 65 Partial differential equations
- 70 Difference and functional equations
- 75 Integral and integro-differential equations
- 80 Error analysis
- 85 Graphical methods, nomography
- 90 Harmonic analysis and synthesis
- 95 Tables

SUBJECT CLASSIFICATION

68. COMPUTING MACHINES

69. GENERAL APPLIED MATHEMATICS

70. MECHANICS OF PARTICLES AND SYSTEMS

- 10 Foundations
- 20 Statics
- 30 Kinematics, mechanisms, linkages
- 40 Dynamics
- 50 Oscillations, stability
- 55 Non-linear oscillation
- 60 Exterior ballistics
- 70 Variable mass, rockets

73. ELASTICITY, PLASTICITY

- 05 Foundations of mechanics of deformable solids
- 06 Elasticity: general theorems
- 07 Finite deformation
- 10 Plane stress and strain
- 15 Three-dimensional problems
- 25 Beams and rods
- 30 Plates
- 32 Shells and membranes
- 35 Anisotropic bodies
- 37 Dislocation theory
- 45 Vibrations, structural dynamics
- 47 Aeroelasticity
- 50 Stability, buckling, failure
- 55 Wave propagation, impact
- 65 Visco-elasticity
- 70 Plasticity, creep
- 80 Soil mechanics
- 90 Thermo-mechanics

76. FLUID MECHANICS, ACOUSTICS

- 05 Foundations
- 10 Incompressible fluids: general theory
- 15 Incompressible fluids with special boundaries
- 17 Airfoil theory
- 20 Free surface flows, water waves, jets, wakes
- 25 Viscous fluids
- 30 Boundary layer theory
- 35 Stability of flow
- 37 Convection
- 40 Turbulence
- 45 Rarefied gas flow
- 50 Compressible fluids: general theory
- 55 Compressible fluids: subsonic flow
- 60 Compressible fluids: transonic flow
- 65 Compressible fluids: supersonic and hypersonic flow
- 70 Shock waves
- 75 Aero- and hydrodynamic sound
- 80 Acoustics
- 85 Non-Newtonian fluids
- 90 Magnetohydro- and aerodynamics, ionized gas flow (see also 78.30 ; 82.25 ; 85.50)
- 92 Quantum hydrodynamics
- 93 Relativistic hydrodynamics
- 95 Diffusion, filtration

78. OPTICS, ELECTROMAGNETIC THEORY, CIRCUITS

- 05 Geometric optics
- 10 Physical optics
- 20 Electron optics
- 30 Space charge waves
- 40 Electromagnetic theory
- 45 Electro- and magnetostatics
- 50 Waves and radiation
- 60 Diffraction, scattering
- 70 Antennas, wave-guides
- 80 Circuits, networks (for switching theory, see 94.70)
- 90 Technical applications

80. CLASSICAL THERMODYNAMICS, HEAT TRANSFER

- 10 Classical thermodynamics
- 20 Heat and mass transfer
- 30 Combustion, interior ballistics
- 40 Chemical kinetics

81. QUANTUM MECHANICS

- 10 General theory
- 15 Scattering theory
- 20 Mathematical field theory
- 22 Dispersion relations
- 24 Weak interactions
- 26 Elementary particles
- 28 Nuclear physics
- 30 Atomic physics
- 35 Molecular physics
- 50 Quantum mechanics of many-body systems
- 60 Superconductivity and superfluidity
- 70 Quantum statistical mechanics

82. STATISTICAL PHYSICS, STRUCTURE OF MATTER

- 05 General statistical mechanics
- 10 Quantum statistical mechanics
- 15 Statistical thermodynamics
- 17 Irreversible thermodynamics
- 20 Kinetic theory of gases
- 25 Plasma (see also 76.90)
- 30 Liquids
- 40 Solids
- 45 Crystals
- 50 Metals
- 60 Transport processes
- 65 Nuclear reactor theory

83. RELATIVITY

- 10 Special relativity
- 20 General relativity
- 30 Unified field theories
- 40 Other relativistic theories

85. ASTRONOMY

- 10 Celestial mechanics
- 15 Galactic and stellar dynamics
- 20 3- and n-body problems
- 27 Astronautics
- 30 Stellar structure
- 40 Stellar atmospheres, radiative transfer
- 50 Hydrodynamic and hydromagnetic problems
- 60 Statistical astronomy
- 70 Cosmology
- 80 Special problems
- 90 Radio astronomy

86. GEOPHYSICS

- 10 Hydrology, hydrography, oceanography
- 20 Meteorology
- 30 Seismology
- 40 Potentials, prospecting
- 50 Geo-electricity and magnetism
- 60 Geodesy, mapping problems
- 70 Atmospheric physics

90. ECONOMICS, OPERATIONS RESEARCH, GAMES

- 05 Decisions, utility
- 10 Economic models
- 15 Economic time-series analysis
- 17 Miscellaneous applications to economics
- 30 Management science, operations research
- 35 Highway traffic

SUBJECT CLASSIFICATION

- 40 Actuarial theory
- 50 Linear programming
- 52 Transportation problems
- 54 Flows in networks
- 56 Integer programming
- 58 Non-linear programming
- 60 Logistics, inventory, storage
- 70 Games
- 80 n-person games

92. BIOLOGY AND BEHAVIORAL SCIENCES

- 10 Biology
- 20 Genetics
- 30 Population dynamics, epidemiology
- 40 Sociology

- 50 Psychology
- 55 Nervous networks

94. INFORMATION, COMMUNICATION, CONTROL

- 05 Foundations, coding theorem
- 10 Statistical theory of communication channels, filters
- 13 Detection
- 15 Codes, decoding
- 20 Data processing
- 30 Linguistics, machine translation
- 55 Control systems
- 57 Stability of control systems
- 60 Optimal control
- 65 Random control
- 70 Switching theory, relays
- 80 Servomechanisms
- 90 Automata (see also 02.95)

ABBREVIATIONS OF NAMES OF JOURNALS

This list gives the form of references used in MATHEMATICAL REVIEWS and the complete title; the place of publication and other pertinent information are given in parentheses when desirable for clarity.

- Abh. Akad. Wiss. Göttingen Math.-Phys. Kl.* Abhandlungen der Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse. (Göttingen)
- Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)
- Abh. Dokumentationszentrums Technik Wirtschaft.* Abhandlungen des Dokumentationszentrums der Technik und Wirtschaft. (Vienna)
- Abh. Math. Sem. Univ. Hamburg.* Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg. (Hamburg)
- Abh. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Leipzig)
- Acad. R. P. Romîne An. Romîno-Soviet. Ser. Mat.-Fiz.* Academia Republicii Populare Romîne. Institutul de Studii Romîno-Sovietice. *Analele Romîno-Sovietice. Seria Matematică-Fizică.* Rumyno-Sovetskîe Zapiski. Fiziko-Matematicheskaja Serija. (Bucharest)
- Acad. R. P. Romîne Baza Cerc. Ști. Timișoara Stud. Cerc. Ști. Tehn.* Academia Republicii Populare Romîne. Baza de Cercetări Științifice Timișoara. Studii și Cercetări Științe Tehnice. (Timișoara)
- Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* Academia Republicii Populare Romîne. Institutul de Calcul. Filiala Cluj. Studii și Cercetări de Matematică. (Cluj)
- Acad. R. P. Romîne Fil. Iași Stud. Cerc. Ști. Fiz. Ști. Tehn.* Academia Republicii Populare Romîne. Filiala Iași. Studii și Cercetări Științifice. Fizică și Științe Tehnice. (Iași)
- Acad. R. P. Romîne Fil. Iași Stud. Cerc. Ști. Mat.* Academia Republicii Populare Romîne. Filiala Iași. Studii și Cercetări Științifice. Matematică. (Iași)
- Acad. R. P. Romîne Stud. Cerc. Mat.* Academia Republicii Populare Romîne. Institutul de Matematică. Studii și Cercetări Matematică. *Matematică Trudy i Issledovaniya. Études et Recherches Mathématiques.* (Bucharest)
- Acad. R. P. Romîne Stud. Cerc. Mec. Apl.* Academia Republicii Populare Romîne. Institutul de Mecanică Aplicată "Traian Vuia". Studii și Cercetări de Mecanică Aplicată. (Bucharest)
- Acad. Roy. Belg. Bull. Cl. Sci.* Académie Royale de Belgique. Bulletin de la Classe des Sciences. Koninklijke Belgische Academie. Mededelingen van de Klasse der Wetenschappen. (Brussels)
- Acad. Roy. Belg. Cl. Sci. Mém. Coll. in-8°.* Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8°. Koninklijke Belgische Academie. Klasse der Wetenschappen. Verhandelungen. Verzameling in-8°. (Brussels)
- Acad. Serbe Sci. Arts Glas. Cl. Sci. Math. Natur.* Académie Serbe des Sciences et des Arts. Glas. Classe des Sciences Mathématiques et Naturelles. Nouvelle Série. (Belgrade)
- Accad. Naz. Sci. Lett. Arti Modena Atti Mem.* Accademia Nazionale di Scienze Lettere e Arti. Modena. Atti e Memorie. (Modena)
- Acta Acad. Abo. Math. Phys.* Acta Academiae Aboensis. Mathematica et Physica. (Åbo=Turku)
- Acta Arith.* Polska Akademia Nauk. Instytut Matematyczny. Acta Arithmetica. (Warsaw)
- Acta Astronom. Sinica.* Acta Astronomica Sinica. (Peking)
- Acta Cryst.* Acta Crystallographica. (Copenhagen)
- Acta Fac. Natur. Univ. Comenian.* Acta Facultatis Rerum Naturalium Universitatis Comenianae. (Bratislava)
- Acta Math.* Acta Mathematica. (Uppsala)
- Acta Math. Acad. Sci. Hungar.* Acta Mathematica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Math. Sinica.* Acta Mathematica Sinica. (Peking) (Translated as: *Chinese Math.*)
- Acta Mech. Sinica.* Acta Mechanica Sinica. (Peking)
- Acta Philos. Fenn.* Acta Philosophica Fennica. (Helsinki)
- Acta Phys. Acad. Sci. Hungar.* Acta Physica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Phys. Austriaca.* Acta Physica Austriaca. (Vienna)
- Acta Phys. Polon.* Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. (Warsaw)
- Acta Polytech. Scand. Math. and Comput. Mach. Ser.* Acta Polytechnica Scandinavica. Mathematics and Computing Machinery Series. (Stockholm) (Formerly: *Acta Polytech. Scandinav.*)
- Acta Polytech. Scandinav.* Acta Polytechnica Scandinavica. (Stockholm) (Continued as: *Acta Polytech. Scand. Math. and Comput. Mach. Ser.*)
- Acta Sci. Math. (Szeged).* Acta Universitatis Szegediensis. Acta Scientiarum Mathematicarum. (Szeged)
- Acta Tech. Acad. Sci. Hungar.* Acta Technica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Univ. Debrecen.* Acta Universitatis Debreceniensis de Ludovico Kossuth Nominatae. (Debrecen)
- Actes Soc. Helv. Sci. Natur.* Actes de la Société Helvétique des Sciences Naturelles. Verhandlungen der Schweizerischen Naturforschenden Gesellschaft. Atti della Società Elvetica di Scienze Naturali. (Basel)
- Actualités Sci. Indust.* Actualités Scientifiques et Industrielles. (Paris)
- Acustica.* Acustica. (Zürich)
- Advances in Math.* Advances in Mathematics. (New York)
- Advances in Phys.* Advances in Physics. A Quarterly Supplement of the Philosophical Magazine. (London)
- Aero. Quart.* The Aeronautical Quarterly. (London)
- AIAA J.* AIAA Journal. (Easton, Pa.)
- Akad. Nauk Armjan. SSR Dokl.* Akademija Nauk Armjanskoi SSR. Doklady. (Erevan)
- Akad. Nauk Azerbaidžan. SSR Dokl.* Akademija Nauk Azerbaidžanskoi SSR. Doklady. (Baku)
- Akad. Nauk Azerbaidžan. SSR Trudy Inst. Fiz. Mat.* Akademija Nauk Azerbaidžanskoi SSR. Trudy Instituta Fiziki i Matematiki. (Baku)
- Akad. Nauk Azerbaidžan. SSR Trudy Inst. Mat. Meh.* Akademija Nauk Azerbaidžanskoi SSR. Trudy Instituta Matematiki i Mexaniki. (Baku)
- Akad. Nauk BSSR Trudy Inst. Fiz. Mat.* Akademija Nauk Beloruskoj SSR. Institut Fiziki i Matematiki. Trudy Instituta Fiziki i Matematiki. (Minsk)
- Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze.* Akademija Nauk Gruzinskoi SSR. Trudy Tbilisskogo Matematicheskogo Instituta im. A. M. Razmadze. (Tiflis)
- Akad. Nauk Kazah. SSR Trudy Astrofiz. Inst.* Akademija Nauk Kazahskoi SSR. Trudy Astrofizicheskogo Instituta. (Alma-Ata)

ABBREVIATIONS OF NAMES OF JOURNALS

- Akad. Nauk Kazah. SSR Trudy Sek. Mat. Meh.* Akademija Nauk Kazahskoi SSR. Trudy Sektora Matematiki i Mehaniki. (Alma-Ata)
- Akad. Nauk Latv. SSR Trudy Inst. Fiz.* Akademija Nauk Latvskoi SSR. Trudy Instituta Fiziki. (Riga)
- Akad. Nauk SSSR Izv. Sibirk. Otd.* Akademija Nauk SSSR. Izvestija Sibirskogo Otdelenija Akademii Nauk SSSR. (Novosibirsk) (Continued as: *Izv. Sibirk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk*)
- Akad. Nauk Uzbek. SSR Trudy Inst. Mat.* Akademija Nauk Uzbekskoi SSR. Trudy Instituta Matematiki im. V. I. Romanovskogo. (Tashkent)
- Akad. Wiss. Lit. Mainz Abh. Math.-Natur. Kl.* Akademie der Wissenschaften und der Literatur in Mainz. Abhandlungen der Mathematisch-Naturwissenschaftlichen Klasse. (Wiesbaden)
- Akust. Beihefte.* Akustische Beihefte. (Stuttgart)
- Akust. Ž.* Akademija Nauk SSSR. Akustičeskij Žurnal. (Moscow) (Translated as: *Soviet Physics Acoust.*)
- Algebra i Logika Sem.* Akademija Nauk SSSR. Sibirskoe Otdelenie Institut Matematiki. Algebra i Logika. Seminar. (Novosibirsk)
- Algorytmy.* Algorytmy. Prace. Instytutu Maszyn Matematycznych. Polskiej Akademii Nauk. (Warsaw)
- Allgemein. Statist. Arch.* Allgemeines statistisches Archiv. Organ der Deutschen Statistischen Gesellschaft. (Munich)
- Amer. J. Math.* American Journal of Mathematics. (Baltimore, Md.)
- Amer. J. Phys.* American Journal of Physics. (New York)
- Amer. Math. Monthly.* The American Mathematical Monthly. (Buffalo, N.Y.)
- Amer. Math. Soc. Notices.* American Mathematical Society Notices. (Providence, R.I.)
- Amer. Math. Soc. Transl.* American Mathematical Society Translations. (Providence, R.I.)
- AMR.* Applied Mechanics Reviews. (New York)
- An. Acad. Brasil. Ci.* Anais da Academia Brasileira de Ciencias. (Rio de Janeiro)
- An. Soc. Ci. Argentina.* Anales de la Sociedad Científica Argentina. (Buenos Aires)
- An. Ști. Univ. "Al. I. Cuza" Iași Sec. I.* Analele Științifice ale Universității "Al. I. Cuza" din Iași. (Seria Nouă). Secțiunea I. (Matematică, Fizică, Chimie). (Iași)
- An. Univ. București Ser. Acta Logica.* Analele Universității București. Seria Acta Logica. (Bucharest)
- An. Univ. C. I. Parhon Ser. Ști. Natur. Mat.-Fiz.* Analele Universității, C. I. Parhon. Seria Științele Naturii. Matematică-Fizică. (Bucharest)
- Ann. Acad. Sci. Fenn. Ser. A I.* Suomalaisen Tiedekatemia Toimituksia. Sarja A. Annales Academiae Scientiarum Fennicae. Series A. I. Mathematica. (Helsinki)
- Ann. Acad. Sci. Fenn. Ser. A VI.* Suomalaisen Tiedekatemia Toimituksia. Sarja A. Annales Academiae Scientiarum Fennicae. Series A. VI. Physica. (Helsinki)
- Ann. Assoc. Internat. Calcul Anal.* Annales de l'Association Internationale pour le Calcul Analogique. Proceedings of the International Association for Analog Computation. (Brussels)
- Ann. Astrophys.* Annales d'Astrophysique. (Paris)
- Ann. Fac. Sci. Univ. Toulouse.* Annales de la Faculté des Sciences de l'Université de Toulouse pour les Sciences Mathématiques et les Sciences Physiques. (Toulouse)
- Ann. Geofis.* Annali di Geofisica. Rivista dell'Istituto Nazionale di Geofisica. (Rome)
- Ann. Inst. Fourier (Grenoble).* Université de Grenoble. Annales de l'Institut Fourier. (Grenoble)
- Ann. Inst. H. Poincaré.* Annales de l'Institut Henri Poincaré. (Paris)
- Ann. Inst. Statist. Math.* Annals of the Institute of Statistical Mathematics. (Tokyo)
- Ann. Japan Assoc. Philos. Sci.* Annals of the Japan Association for Philosophy of Science. (Tokyo)
- Ann. Mat. Pura Appl.* Annali di Matematica Pura ed Applicata. (Bologna)
- Ann. Math. Statist.* The Annals of Mathematical Statistics. (Baltimore, Md.)
- Ann. New York Acad. Sci.* Annals of the New York Academy of Sciences. (New York)
- Ann. of Math.* Annals of Mathematics. (Princeton, N.J.)
- Ann. of Sci.* Annals of Science. (London)
- Ann. Physics.* Annals of Physics. (New York)
- Ann. Physik.* Annalen der Physik. (Leipzig)
- Ann. Physique.* Annales de Physique. (Paris)
- Ann. Polon. Math.* Polska Akademia Nauk. Annales Polonici Mathematici. (Warsaw)
- Ann. Ponts Chaussées.* Annales de Ponts et Chaussées. (Paris)
- Ann. Radioléc.* Annales de Radiolécrité. (Paris)
- Ann. Sci. École Norm. Sup.* Annales Scientifiques de l'École Normale Supérieure. (Paris)
- Ann. Scuola Norm. Sup. Pisa.* Annali della Scuola Normale Superiore di Pisa. Scienze Fisiche e Matematiche. (Pisa)
- Ann. Soc. Sci. Bruxelles Sér. I.* Annales de la Société Scientifique de Bruxelles. Série I. Sciences Mathématiques, Astronomiques et Physiques. (Brussels)
- Ann. Télécommun.* Annales des Télécommunications. (Paris)
- Ann. Univ. Lyon Sect. A.* Annales de l'Université de Lyon. Section A. Sciences Mathématiques et Astronomie. (Lyon)
- Ann. Univ. Lyon Sect. B.* Annales de l'Université de Lyon. Section B. Sciences Physiques et Chimiques. (Lyon)
- Ann. Univ. Mariae Curie-Skłodowska Sect. A.* Annales Universitatis Mariae Curie-Skłodowska. Section A. Mathematica. (Lublin)
- Ann. Univ. Mariae Curie-Skłodowska Sect. AA.* Annales Universitatis Mariae Curie-Skłodowska. Section AA. Physics and Chemistry. (Lublin)
- Ann. Univ. Sarav.* Annales Universitatis Saraviensis. (Saarbrücken)
- Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae. Sectio Mathematica. (Budapest)
- Ann. Univ. Turku. Ser. A I.* Annales Universitatis Turkuensis. Series A. I. (Turku)
- Annuaire Acad. Roy. Belg.* Annuaire de l'Académie Royale de Belgique. Jaarboek van de Koninklijke Belgische Akademie. (Brussels)
- Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 1 Math.* Godišnik na Sofijskija Universitet Fiziko-Matematičeskij Fakultet. Kniga 1—Matematika. Annuaire de l'Université de Sofia. Faculté des Sciences Physiques et Mathématiques. Livre 1—Mathématiques. (Sofia)
- Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 2 Phys.* Godišnik na Sofijskija Universitet Fiziko-Matematičeskij Fakultet. Kniga 2—Fizika. Annuaire de l'Université de Sofia. Faculté des Sciences Physiques et Mathématiques. Livre 2—Physique. (Sofia)
- Anuário Obs. São Paulo.* Universidade de São Paulo. Instituto Astronômico e Geofísico. Anuário do Observatório de S. Paulo. (São Paulo)

ABBREVIATIONS OF NAMES OF JOURNALS

- Apl. Mat.* Československá Akademie Véd. Aplikace Matematiky. (Prague)
- Appl. Mech. Rev.* Applied Mechanics Reviews. (New York) (Sometimes abbreviated as *AMR* in the text of *Math. Reviews*)
- Appl. Statist.* Applied Statistics. A Journal of the Royal Statistical Society. (London)
- Arbok Univ. Bergen Mat.-Natur. Ser.* Arbok for Universitetet i Bergen. Mat.-Naturv. Serie. (Bergen)
- Arch. Elektrotech.* Archiv für Elektrotechnik. (Berlin-Göttingen-Heidelberg)
- Arch. History Exact Sci.* Archive for History of Exact Sciences. (Berlin)
- Arch. Math.* Archiv der Mathematik. Archives of Mathematics. Archives Mathématiques. (Basel-Stuttgart)
- Arch. Math. Logik Grundlagenforsch.* Archiv für mathematische Logik und Grundlagenforschung. (Stuttgart)
- Arch. Mech. Stos.* Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Archiwum Mechaniki Stosowanej. (Warsaw)
- Arch. Rational Mech. Anal.* Archive for Rational Mechanics and Analysis. (Berlin)
- Arch. Sci. Soc. Phys. Histoire Natur. Genève.* Archives des Sciences. Société de Physique et d'Histoire Naturelle de Genève. (Geneva)
- Archimede.* Archimede. Rivista per gli Insegnanti e i Cultori di Matematiche Pure e Applicate. (Florence)
- Ark. Astronom.* Arkiv för Astronomi. (Stockholm)
- Ark. Fys.* Arkiv för Fysik. (Stockholm)
- Ark. Mat.* Arkiv för Matematik. (Stockholm)
- Arkhimedes.* Arkhimedes. Suomen Fysikkoseura—Finlands Fysikerförening r.y. Suomen Matemaattinen Yhdistys—Finlands Matemaattinen Yhdistys r.y. (Helsinki)
- Arquivo Inst. Gulbenkian Ci. Sec. A Estud. Mat. Fis.-Mat.* Arquivo do Instituto Gulbenkian de Ciência. Secção A. Estudos Matemáticos e Físico-Matemáticos. (Lisbon)
- Assoc. Roy. Actuar. Belges Bull.* Association Royale des Actuaire Belges. Bulletin. (Brussels)
- Astronaut. Acta.* Astronautica Acta. (Vienna)
- Astronom. J.* The Astronomical Journal. (New Haven, Conn.)
- Astronom. Jber.* Astronomischer Jahresbericht. (Berlin)
- Astronom. Nachr.* Astronomische Nachrichten. (Berlin)
- Astronom. Zh.* Akademija Nauk Sojuza SSR. Astronomičeskij Žurnal. (Moscow) (Translated as: *Soviet Astronom. AJ*)
- Astrophys. J.* The Astrophysical Journal. (Chicago, Ill.)
- Astrophys. Norvegica.* Det Norske Videnskaps-Akademi i Oslo. Astrophysical Norvegica. (Oslo)
- Atatürk Univ. Yayınları Ser.-Mat.* Atatürk Üniversitesi Yayınları. Araştırmalar Serisi—Matematik. Publications of Atatürk University. Research Series—Mathematics. (Erzurum)
- Atti Accad. Gioenia Catania.* Atti della Accademia Gioenia di Scienze Naturali in Catania. (Catania)
- Atti Accad. Ligure.* Atti della Accademia Ligure di Scienze e Lettere. (Genoa)
- Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. I.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione I^a. (Matematica, Meccanica, Astronomia, Geodesia e Geofisica). (Rome)
- Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. II.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione II^a. (Fisica, Chimica, Geologia, Paleontologia e Mineralogia). (Rome)
- Atti Accad. Naz. Lincei Rend. Adunanze Solenni.* Atti della Accademia Nazionale dei Lincei. Rendiconti delle Adunanze Solenni. (Rome)
- Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. (Rome)
- Atti Accad. Sci. Fis. Mat. Napoli.* Atti dell'Accademia delle Scienze Fisiche e Matematiche di Napoli. (Naples)
- Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Mem.* Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Memorie. (Bologna)
- Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Rendiconti. (Bologna)
- Atti Accad. Sci. Lett. Arti Palermo Parte I.* Atti della Accademia di Scienze Lettere e Arti di Palermo. Parte Prima: Scienze. (Palermo)
- Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* Atti della Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)
- Atti Sem. Mat. Fis. Univ. Modena.* Atti del Seminario Matematico e Fisico dell'Università di Modena. (Modena)
- Austral. J. Appl. Sci.* Australian Journal of Applied Science. (Melbourne)
- Austral. J. Phys.* Australian Journal of Physics. (Melbourne)
- Austral. J. Sci.* The Australian Journal of Science. (Sydney)
- Austral. J. Statist.* The Australian Journal of Statistics. (Sydney)
- Automat. Remote Control.* Automation and Remote Control. (A translation of *Avtomatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR). (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemekh.*)
- Arch. Norske Vid.-Akad. Oslo I.* Avhandlingar Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Mat.-Naturv. Klasse. (Oslo)
- Avtomat. i Telemekh.* Akademija Nauk Sojuza SSR. Avtomatika i Telemekhanika. (Moscow) (Translated as: *Automat. Remote Control*)
- Avtomatika.* Akademija Nauk Ukraïns'koï RSR. Institut Elektrotehniki. Avtomatika. (Kiev)
- Azerbaldžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk.* Azerbaldžanskij Gosudarstvennyj Universitet im. S. M. Kirova. Učenye Zapiski. Serija Fiziko-Matematičeskij i Himičeskij Nauk. (Baku)
- Bayer. Akad. Wiss. Math.-Natur. Kl. Abh.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Abhandlungen. (Munich)
- Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. (Munich)
- Behavioral Sci.* Behavioral Science. (Baltimore, Md.-Ann Arbor, Mich.)
- Bell System Tech. J.* The Bell System Technical Journal. (New York)
- Biometrics.* Biometrics. Journal of the Biometric Society. (Blackburg, Va.)
- Biometrika.* Biometrika. (London)
- Biophys. J.* Biophysical Journal. (Richmond, Va.)
- Bjull. Inst. Teoret. Astronom.* Akademija Nauk Sojuza Sovetskijh Soedinističeskijh Respublik. Bjulleten' Instituta Teoretičeskoi Astro-nomii. (Moscow)
- Bol. Fac. Ingen. Agrimens. Montevideo.* Boletín de la Facultad de Ingeniería y Agrimensura de Montevideo. (Montevideo)
- Bol. Soc. Mat. Mexicana.* Boletín de la Sociedad Matemática Mexicana. (Mexico, D.F.)
- Bol. Soc. Mat. São Paulo.* Boletim da Sociedade de Matemática de São Paulo. (São Paulo)

ABBREVIATIONS OF NAMES OF JOURNALS

- Bol. Univ. Paraná Fis. Teórica.* Boletim da Universidade do Paraná. Conselho de Pesquisas. Instituto de Física. Física Teórica. (Curitiba)
- Boll. Un. Mat. Ital.* Bollettino della Unione Matematica Italiana. (Bologna)
- Bonn. Math. Schr.* Bonner Mathematische Schriften. (Bonn)
- British J. Philos. Sci.* The British Journal for the Philosophy of Science. (Edinburgh)
- Bul. Inst. Petrol Gaze Geol.* Ministerul Învățămîntului și Culturii. Buletinul Institutului de Petrol, Gaze și Geologie. (Bucharest)
- Bul. Inst. Politehn. București.* Buletinul Institutului Politehnic București. (Bucharest)
- Bul. Inst. Politehn. Iasi.* Buletinul Institutului Politehnic din Iasi. Serie Nouă. (Iasi)
- Bul. Ști. Inst. Politehn. Cluj.* Buletinul Științific al Institutului Politehnic din Cluj. (Cluj)
- Bulgar. Akad. Nauk. Izv. Mat. Inst.* Bŭlgarska Akademija na Naukite. Otdelenie za Fiziko-Matematičeski i Tehničeski Nauki. Izvestija na Matematičeskija Institut. (Sofia)
- Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Mathématiques, Astronomiques et Physiques. (Warsaw)
- Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* Bulletin de l'Académie Serbe des Sciences et des Arts. Classe des Sciences Mathématiques et Naturelles Sciences. Mathématiques. (Belgrade) (Formerly: *Bull. Acad. Serbe Sci. Cl. Sci. Math. Nat. Sci. Math.*)
- Bull. Acad. Serbe Sci. Cl. Sci. Math. Natur. Sci. Math.* Bulletin de l'Académie Serbe des Sciences et des Arts. Classe des Sciences Mathématiques et Naturelles Sciences. Mathématiques. (Belgrade) (Continued as: *Bull. Acad. Serbe Sci. Arts. Cl. Sci. Math. Natur. Sci. Math.*)
- Bull. Amer. Math. Soc.* Bulletin of the American Mathematical Society. (Providence, R.I.)
- Bull. Assoc. Actuar. Diplômés Inst. Sci. Financière et d'Assurances.* Bulletin de l'Association des Actuaires Diplômés de l'Institut de Science Financière et d'Assurances. (Paris)
- Bull. Astronom.* Bulletin Astronomique. (Paris)
- Bull. Astronom. Inst. Netherlands.* Bulletin of the Astronomical Institutes of the Netherlands. (Haarlem)
- Bull. Calcutta Math. Soc.* Bulletin of the Calcutta Mathematical Society. (Calcutta)
- Bull. College Sci. (Baghdad).* Bulletin of the College of Science. (Baghdad)
- Bull. Earthquake Res. Inst. Tokyo.* Bulletin of the Earthquake Research Institute, University of Tokyo. (Tokyo) See *Bull. Earthquake Res. Inst. Univ. Tokyo.*
- Bull. Earthquake Res. Inst. Univ. Tokyo.* Bulletin of the Earthquake Research Institute, University of Tokyo. (Tokyo) (Formerly listed as: *Bull. Earthquake Res. Inst. Tokyo*)
- Bull. Fukuoka Gakugei Univ. III.* Bulletin of Fukuoka Gakugei University. III. Natural Sciences. (Fukuoka)
- Bull. Géodésique.* Bulletin Géodésique. (Paris)
- Bull. Inst. Internat. Statist.* Bulletin de l'Institut International de Statistique. (The Hague)
- Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* Bulletin (Izvestiya) Academy of Sciences, USSR. Geophysics Series. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Geofiz.*)
- Bull. JSME.* Bulletin of JSME. (Japan Society of Mechanical Engineers). (Tokyo)
- Bull. Kyoto Gakugei Univ. Ser. B.* Bulletin of the Kyoto Gakugei University. Ser. B. Mathematics and Natural Science. (Kyoto)
- Bull. Kyushu Inst. Tech. Math. Natur. Sci.* Bulletin of the Kyushu Institute of Technology. Mathematics, Natural Science. (Tobata)
- Bull. Math. Biophys.* The Bulletin of Mathematical Biophysics. (Chicago, Ill.)
- Bull. Math. Soc. Nanyang Univ.* Majallah Tahunan Ilmu Pasti. Bulletin of Mathematical Society. Nanyang University. (Singapore)
- Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine.* Bulletin Mathématique de la Société des Sciences Mathématiques et Physiques de la République Populaire Roumaine. (Bucharest)
- Bull. Math. Statist.* Bulletin of Mathematical Statistics. (Fukuoka)
- Bull. Res. Council Israel Sect. F.* Bulletin of the Research Council of Israel. Section F. Mathematics and Physics. (Jerusalem) (Continued as: *Israel J. Math.*)
- Bull. Sci. Conseil Acad. RSF Yougoslav.* Bulletin Scientifique. Conseil des Académies de la RSF de Yougoslavie. (Zagreb)
- Bull. Sci. Math.* Bulletin des Sciences Mathématiques. (Paris)
- Bull. Signal. 1 Math. Pures Appl.* Ministère de l'Éducation Nationale. Centre National de la Recherche Scientifique. Bulletin Signalétique. 1. Mathématiques Pures et Appliquées. (Paris)
- Bull. Soc. Amis Sci. Lettres Poznań Sér. B.* Bulletin de la Société des Amis des Sciences et des Lettres de Poznań. Série B: Sciences Mathématiques et Naturelles. (Poznań)
- Bull. Soc. Math. Belg.* Bulletin de la Société Mathématique de Belgique. (Brussels)
- Bull. Soc. Math. France.* Bulletin de la Société Mathématique de France. (Paris)
- Bull. Soc. Math. Grèce.* Bulletin de la Société Mathématique de Grèce. (Athens)
- Bull. Soc. Math. Phys. Macédoins.* Bulletin de la Société des Mathématiciens et Physiciens de la République Populaire de Macédoine. Bilten na Društvo na Matematikarite i Fizikarite od Narodna Republika Makedonija. (Skopje)
- Bull. Soc. Math. Phys. Serbie.* Bulletin de la Société des Mathématiciens et Physiciens de la R. P. de Serbie. Vestnik Društva Matematikara i Fizikara Narodne Republike Srbije. (Belgrade)
- Bull. Soc. Roy. Sci. Liège.* Bulletin de la Société Royale des Sciences de Liège. (Liège)
- Bull. Soc. Sci. Lettres Lódz.* Bulletin de la Société des Sciences et des Lettres de Lódz. (Lódz)
- Bull. Tokyo Gakugei Univ.* Bulletin of Tokyo Gakugei University. (Tokyo)
- Bull. Tokyo Inst. Tech.* Bulletin of the Tokyo Institute of Technology. (Tokyo)
- Bull. Trimest. Inst. Actuaire Français.* Bulletin Trimestriel de l'Institut des Actuaire Français. (Paris)
- Bull. Univ. Osaka Prefecture Ser. A.* Bulletin of University of Osaka Prefecture. Series A. Engineering and Natural Sciences. (Osaka)
- O. R. Acad. Bulgare Sci.* Doklady Bolgarskoj Akademii Nauk. Comptes Rendus de l'Académie Bulgare des Sciences. (Sofia)
- O. R. Acad. Sci. Paris.* Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. (Paris)
- Cahiers Centre Études Rech. Opér.* Cahiers du Centre d'Études de Recherche Opérationnelle. (Brussels)
- Cahiers Centre Math. Statist. Appl. Sci. Social.* Cahiers du Centre de Mathématique et de Statistique Appliquées aux Sciences Sociales de l'Institut de Sociologie Solvay. (Brussels)
- Cahiers de Phys.* Cahiers de Physique. (Paris)
- Cahiers Rhodan.* Cahiers Rhodaniens. (Lyon)
- Calc. Automat. y Cibernet.* Calculo Automatico y Cibernetica. (Madrid)
- Calcutta Statist. Assoc. Bull.* Calcutta Statistical Association Bulletin. (Calcutta)

ABBREVIATIONS OF NAMES OF JOURNALS

- Canad. J. Math.* Canadian Journal of Mathematics. Journal Canadien de Mathématiques. (Toronto, Ont.)
- Canad. J. Phys.* Canadian Journal of Physics. (Ottawa, Ont.)
- Canad. Math. Bull.* Canadian Mathematical Bulletin. Bulletin Canadien de Mathématiques. (Toronto, Ont.)
- Časopis Pěst. Mat.* Československá Akademie Věd. Časopis pro Pěstování Matematiky. (Prague)
- Centaurus.* Centaurus. (Copenhagen)
- Chalmers Tekn. Högsk. Handl.* Chalmers Tekniska Högskolans Handlingar. Transactions of Chalmers University of Technology, Gothenburg, Sweden. (Gothenburg)
- Chinese Math.* Chinese Mathematics. Translation of *Acta Mathematica Sinica*. (Providence, R.I.) (Translation of *Acta Math. Sinica*)
- Ciência (Lisboa).* Ciência. Revista de Cultura Científica. (Lisbon)
- Ciencias (Madrid).* Las Ciencias. (Madrid)
- Collect. Math.* Consejo Superior de Investigaciones Científicas. Universidad de Barcelona. *Collectanea Mathematica*. (Barcelona)
- Colloq. Math.* Colloquium Mathematicum. (Warsaw)
- Com. Acad. R. P. Romine.* Comunicările Academiei Republicii Populare Romine. (Bucharest)
- Comm. ACM.* Communications of the Association for Computing Machinery. (New York)
- Comm. and Electronics.* Communication and Electronics. (New York) (Continued as: *IEEE Trans. Comm. and Electronics*)
- Comm. Dublin Inst. Adv. Studies Ser. A.* Communications of the Dublin Institute for Advanced Studies. Series A. (Dublin)
- Comm. Fac. Sci. Univ. Ankara Sér. A.* Communications de la Faculté des Sciences de l'Université d'Ankara, Série A. Mathématiques-Physique-Astronomie. (Ankara)
- Comm. Pure Appl. Math.* Communications on Pure and Applied Mathematics. (New York)
- Comment. Math. Helv.* Commentarii Mathematici Helvetici. (Zürich)
- Comment. Math. Univ. Carolinae.* Commentationes Mathematicae Universitatis Carolinae. (Prague)
- Comment. Math. Univ. St. Paul.* Commentarii Mathematici Universitatis Sancti Pauli. Rikkyō Daigaku Sōgaku Zasshi. (Tokyo)
- Compositio Math.* Compositio Mathematica. (Groningen)
- Comput. Bull.* The Computer Bulletin. (London)
- Comput. J.* The Computer Journal. (London)
- Comput. Rev.* Computing Reviews. (New York) (Usually abbreviated *CR* in the text of *Math. Reviews*)
- Confer. Sem. Mat. Univ. Bari.* Conference del Seminario di Matematica dell'Università di Bari. (Bari)
- Contributions to Differential Equations.* Contributions to Differential Equations. (New York)
- CR.* Computing Reviews. (New York)
- Cybernetica.* Cybernetica. (Namur)
- Czechoslovak J. Phys.* Československá Akademie Nauk. Československý Fyzikální Žurnal. Czechoslovak Academy of Sciences. Czechoslovak Journal of Physics. (Prague)
- Czechoslovak Math. J.* Československá Akademie Nauk. Československý Matematický Žurnal. Czechoslovak Mathematical Journal. (Prague)
- Deutsch. Akad. Wiss. Berlin Veröff. Geodät. Inst. Potsdam.* Deutsche Akademie der Wissenschaften zu Berlin. Veröffentlichungen des Geodätischen Institutes in Potsdam. (Berlin)
- Deutsche Geodät. Kommis. Bayer. Akad. Wiss. Reihe B Angew. Geodäsie.* Deutsche Geodätische Kommission bei der Bayerischen Akademie der Wissenschaften. Reihe B. Angewandte Geodäsie. (Munich)
- Dialectica.* Dialectica. (Neuchâtel)
- Discussions Faraday Soc.* Discussions of the Faraday Society. (London)
- Dokl. Akad. Nauk BSSR.* Doklady Akademii Nauk BSSR. (Minsk)
- Dokl. Akad. Nauk SSSR.* Doklady Akademii Nauk SSSR. (Moscow) (Mathematics section translated as: *Soviet Math. Dokl.*; Physics section translated as: *Soviet Physics Dokl.*)
- Dokl. Akad. Nauk Tadšk. SSR.* Doklady Akademii Nauk Tadškikoi SSR. (Dushanbe)
- Dopovidi Akad. Nauk Ukrain. SSR.* Dopovidi Akademii Nauk Ukrain'koï Radjans'koï Socialističnoï Respubliki. (Kiev)
- Duke Math. J.* Duke Mathematical Journal. (Durham, N.C.)
- Econometrics.* Econometrica. Journal of the Econometric Society. (Chicago, Ill.)
- Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn. Tead. Seer.* Eesti NSV Teaduste Akadeemia Toimetised. Füüsikalise-Matemaatilise ja Tehnilise Teaduste Seeria. Izvestija Akademii Nauk Estonikoï SSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk. (Tallin)
- Elektron. Datenverarbeitung.* Elektronische Datenverarbeitung. Fachberichte über programmgesteuerte Maschinen und ihre Anwendung. (Braunschweig)
- Elem. Math.* Elemente der Mathematik. Revue de Mathématiques Élémentaires. Rivista de Matematica Elementare. (Basel)
- English Abstracts Selected Articles Soviet Bloc and Mainland China Tech. J. Ser. I.* English Abstracts of Selected Articles from Soviet Bloc and Mainland China Technical Journals. Series I—Physics and Mathematics. (Washington, D.C.)
- Enseignement Math.* L'Enseignement Mathématique. (Geneva)
- Ericsson Technica.* Ericsson Technica. (Stockholm)
- Estadist. Española.* Estadística Española. (Madrid)
- Estadística.* Estadística. (Washington, D.C.)
- Euclides (Groningen).* Euclides. Tijdschrift voor de Didactiek der Exacte Vakken. (Groningen)
- Euclides (Madrid).* Euclides. Revista Mensual de Ciencias Exactas, Físicas, Químicas, Naturales y Aplicaciones Técnicas. (Madrid)
- Fac. Ingen. Agrimens. Montevideo Publ. Didact. Inst. Mat. Estadist.* Facultad de Ingeniería y Agrimensura. Montevideo. Publicaciones Didácticas del Instituto de Matemática y Estadística. (Montevideo)
- Fac. Sci. Univ. Skopje Annuaire.* Faculté des Sciences de l'Université de Skopje. Annuaire. (Skopje)
- Fibonacci Quart.* The Fibonacci Quarterly. Official Organ of the Fibonacci Association. A journal devoted to the study of integers with special properties. (St. Mary's College, Calif.)
- Fiz.-Mat. Spis. Bŭlgar. Akad. Nauk.* Bŭlgarska Akademiya na Naukite Fizicheski Institut. Matematičeski Institut. Fiziko-Matematičesko Spisanie. (Sofia)
- Fiz. Teor. Tela.* Fizika Tverdogo Tela. (Moscow-Leningrad) (Translated as: *Soviet Physics Solid State*)
- Forsch. Gebiete Ingenieurwesens.* Forschung auf dem Gebiete des Ingenieurwesens. (Berlin)
- Fortschr. Physik.* Fortschritte der Physik. (Berlin)
- Fund. Math.* Polska Akademia Nauk. Fundamenta Mathematicae. (Warsaw)
- Funkcial. Ekvac.* Fako de l'Funkcialaj Ekvacioj Japana Matematika Societo. Funkcialaj Ekvacioj. (Serio Internacia). (Kobe)
- Gac. Mat. (Madrid).* Gaceta Matemática. (Madrid)
- Ganita.* Ganita. (Lucknow)
- Gaz. Mat. Fiz. Ser. A.* Societatea de Științe Matematice și Fizice din R. P. R. Gazeta Matematică și Fizică. Publicație Pentru Studiul și Răspîndirea Științelor Matematice și Fizice. Seria A. (Bucharest)

ABBREVIATIONS OF NAMES OF JOURNALS

- Gaz. Mat. (Lisbon).* Gazeta de Matematica. (Lisbon)
- Genet. Res.* Genetical Research. (New York)
- Geodast. Inst. Medd.* Geodastisk Institut. Meddelelser. (Copenhagen)
- Geofys. Publ. Norske Vid.-Akad. Oslo.* Geofysiske Publikasjoner Utgitt av det Norske Videnskaps-Akademi i Oslo. (Oslo)
- Giorn. Ist. Ital. Attuari.* Giornale dell'Istituto Italiano degli Attuari. (Rome)
- Giorn. Mat. Battaglini.* Giornale di Matematiche di Battaglini. (Naples)
- Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II.* Glasnik Matematičko-Fizički i Astronomski. Periodicum Mathematico-Physicum et Astronomicum. Serija II. Društvo Matematičara i Fizičara Hrvatske. Societas Mathematicorum et Physicorum Croatiae. (Zagreb)
- Gruzin. Politehn. Inst. Trudy.* Gruzinskii Politehnicheskii Institut im. V. I. Lenina. Trudy. (Tiflis)
- Helv. Phys. Acta.* Helvetica Physica Acta. Societatis Physicæ Helveticae Commentaria Publica. (Basel)
- Hochfrequenztech. Elektroakust.* Hochfrequenztechnik und Elektroakustik. (Leipzig)
- Houille Blanche.* La Houille Blanche. Revue de l'Ingénieur Hydraulicien. (Grenoble)
- IBM J. Res. Develop.* IBM Journal of Research and Development. (New York)
- Icarus.* Icarus. International Journal of the Solar System. (New York)
- ICC Bull.* ICC Bulletin. (Rome)
- ICSU Rev. World Sci.* ICSU Review of World Science. (Amsterdam)
- IEEE Trans. Antennas and Propagation.* IEEE Transactions on Antennas and Propagation. (New York)
- IEEE Trans. Automatic Control.* IEEE Transactions on Automatic Control. (New York)
- IEEE Trans. Circuit Theory.* IEEE Transactions on Circuit Theory. (New York)
- IEEE Trans. Comm. and Electronics.* IEEE Transactions on Communication and Electronics. (New York) (Formerly: *Comm. and Electronics*)
- IEEE Trans. Comm. Systems.* IEEE Transactions on Communication Systems. (New York)
- IEEE Trans. Electronic Computers.* IEEE Transactions on Electronic Computers. (New York)
- IEEE Trans. Information Theory.* IEEE Transactions on Information Theory. (New York)
- IEEE Trans. Nuclear Science.* IEEE Transactions on Nuclear Science. (New York)
- IEEE Trans. Reliability.* IEEE Transactions on Reliability. (New York)
- IEEE Trans. Space Electronics and Telemetry.* IEEE Transactions on Space Electronics and Telemetry. (New York)
- Illinois J. Math.* Illinois Journal of Mathematics. (Urbana, Ill.)
- Indian J. Math.* Indian Journal of Mathematics. (Allahabad)
- Indian J. Mech. Math.* Indian Journal of Mechanics and Mathematics. (Calcutta)
- Indian J. Phys.* Indian Journal of Physics and Proceedings of the Indian Association for the Cultivation of Science. (Calcutta)
- Indian J. Theoret. Phys.* Indian Journal of Theoretical Physics. (Calcutta)
- Information and Control.* Information and Control. (New York)
- Information Storage and Retrieval.* Information Storage and Retrieval. (Oxford-New York)
- Ing.-Arch.* Ingenieur-Archiv. (Berlin-Göttingen-Heidelberg)
- Inst. Hautes Études Sci. Publ. Math.* Institut des Hautes Études Scientifiques. Publications Mathématiques. (Paris)
- Internat. Abstracts Operations Res.* International Abstracts in Operations Research. (Baltimore, Md.)
- Internat. J. Abstracts Statist. Theory Method.* International Journal of Abstracts. Statistical Theory and Method. (London)
- Internat. J. Engrg. Sci.* International Journal of Engineering Science. (Oxford-New York)
- Internat. J. Mech. Sci.* International Journal of Mechanical Sciences. (Oxford)
- Internat. Math. Nachr.* Internationale Mathematische Nachrichten. (Vienna)
- Internat. Sci. and Tech.* International Science and Technology. (New York)
- Inf.-Stroitel. Inst. Kuibyshev. Sb. Trudov.* Moskovskii Ordena Trudovogo Krasnogo Znameni. Inzhenerno-Stroitel'nyi Institut im. V. V. Kuibysheva. Sbornik Trudov. (Moscow)
- Inž. Ž.* Inzhenernyi Zhurnal. Organ Otdeleniya Tehnicheskikh Nauk i Instituta Mehaniki Akademii Nauk SSSR. (Moscow)
- Isis.* Isis. An International Review Devoted to the History of Science and Civilization. (Cambridge, Mass.)
- Israel J. Math.* Israel Journal of Mathematics. (Jerusalem) (Formerly: *Bull. Res. Council Israel Sect. F*)
- Ist. Lombardo Accad. Sci. Lett. Rend. A.* Istituto Lombardo. Accademia di Scienze e Lettere. Rendiconti. Scienze Matematiche, Fisiche, Chimiche e Geologiche. A. (Milan)
- Ist. Lombardo Sci. Lett. Rend. Parte Gen. e Atti Uff.* Istituto Lombardo di Scienze e Lettere. Rendiconti. Parte Generale e Atti Ufficiali. (Milan)
- Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* Istituto Veneto de Scienze, Lettere ed Arti. Venezia. Atti. Classe de Scienze Matematiche e Naturali. (Venice)
- Istanbul Tek. Univ. Bül.* İstanbul Teknik Üniversitesi Bülteni. Bulletin of the Technical University of Istanbul. (Istanbul)
- Istanbul Univ. Fen Fak. Mec. Ser. A.* İstanbul Üniversitesi Fen Fakültesi Mecmuası. Seri A: Sırf ve Tatbiki Matematik. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série A: Mathématiques Pures et Appliquées. (Istanbul)
- Istanbul Univ. Fen Fak. Mec. Ser. C.* İstanbul Üniversitesi Fen Fakültesi Mecmuası. Seri C: Astronomi-Fizik-Kimya. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série C: Astronomie-Physique-Chimie. (Istanbul)
- Istor.-Astronom. Issled.* Istoriko-Astronomicheskie Issledovaniya. (Moscow)
- Istor.-Mat. Issled.* Istoriko-Matematicheskie Issledovaniya. (Moscow-Leningrad)
- Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk.* Izvestiya Akademii Nauk Armjanskoi SSR. Serija Fiziko-Matematicheskikh Nauk. (Erevan)
- Izv. Akad. Nauk Armjan. SSR Ser. Tehn. Nauk.* Izvestiya Akademii Nauk Armjanskoi SSR. Serija Tehnicheskikh Nauk. (Erevan)
- Izv. Akad. Nauk Azerbaidžan. SSR. Ser. Fiz.-Mat. Tehn. Nauk.* Izvestiya Akademii Nauk Azerbaidžanskoi SSR. Serija Fiziko-Matematicheskikh i Tehnicheskikh Nauk. (Baku)
- Izv. Akad. Nauk SSSR Otd. Tehn. Nauk Meh. Mašinost.* Izvestiya Akademii Nauk SSSR. Otdelenie Tehnicheskikh Nauk. Mehanika i Mašinostroenie. (Moscow)

ABBREVIATIONS OF NAMES OF JOURNALS

- Izv. Akad. Nauk SSSR Ser. Fiz.* *Izvestija Akademii Nauk SSSR. Serija Fizičeskaja.* (Moscow)
- Izv. Akad. Nauk SSSR Ser. Geofiz.* *Izvestija Akademii Nauk SSSR. Serija Geofizičeskaja.* (Moscow) (Translated as: *Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.*)
- Izv. Akad. Nauk SSSR Ser. Mat.* *Izvestija Akademii Nauk SSSR. Serija Matematičeskaja.* (Moscow)
- Izv. Akad. Nauk Turkmensk. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk.* *Izvestija Akademii Nauk Turkmenskoi SSR. Serija Fiziko-Tehničeskikh, Himičeskikh i Geologičeskikh Nauk.* (Ashkhabad)
- Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk.* *Izvestija Akademii Nauk UzSSR. Serija Fiziko-Matematičeskikh Nauk.* UzSSR Fanlar Akademijasining Ahboroti. *Fizika-Matematika Fanlari Serijasi.* (Tashkent)
- Izv. Bŭlgar. Akad. Nauk. Otd. Fiz.-Mat. Tehn. Nauk. Ser. Fiz.* *Izvestija na Bŭlgarskata Akademija na Naukite. Otdelenie za Fiziko-Matematičeski i Tehničeski Nauki. Serija Fizičeska.* (Sofia)
- Izv. Kazan. Fil. Akad. Nauk SSSR Ser. Fiz.-Mat. i Tehn. Nauk.* *Izvestija Kazanskogo Filiala Akademii Nauk SSSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk.* (Kazan)
- Izv. Krymsk. Ped. Inst.* *Izvestija Krymanskogo Pedagogičeskogo Instituta im. M. V. Frunze.* (Simferopol)
- Izv. Sibirsk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk.* *Izvestija Sibirskogo Otdelenija. Akademija Nauk SSSR. Serija Tehničeskikh Nauk.* (Novosibirsk) (Formerly: *Akad. Nauk SSSR Izv. Sibirsk. Otd.*)
- Izv. Vuzov = Izv. Vysš. Učebn. Zaved. Matematika.*
- Izv. Vysš. Učebn. Zaved. Matematika.* Ministerstvo Vysšego Obrazovaniya SSSR. *Izvestija Vysših Učebnyh Zavedenij. Matematika.* (Kazan)
- J. Acoust. Soc. Amer.* *The Journal of the Acoustical Society of America.* (New York)
- J. Amer. Statist. Assoc.* *Journal of the American Statistical Association.* (Washington, D.C.)
- J. Analyse Math.* *Journal d'Analyse Mathématique.* (Jerusalem)
- J. Annamalai Univ. Part B Sci.* *Journal of the Annamalai University. Part B. Sciences.* (Annamalainagar)
- J. Appl. Math. Mech.* *Journal of Applied Mathematics and Mechanics.* (Translation of the Soviet journal *Prikladnaja Matematika i Mehanika*). (New York) (Translation of *Prikl. Mat. Meh.*)
- J. Appl. Phys.* *Journal of Applied Physics.* (New York)
- J. Assoc. Comput. Mach.* *Journal of the Association for Computing Machinery.* (New York)
- J. Austral. Math. Soc.* *The Journal of the Australian Mathematical Society.* (Sydney)
- J. Chem. Phys.* *The Journal of Chemical Physics.* (New York)
- J. College Arts Sci. Chiba Univ.* *Journal of the College of Arts and Sciences, Chiba University.* (Chiba)
- J. Electronics Control.* *Journal of Electronics and Control.* (London)
- J. Fac. Sci. Hokkaido Univ. Ser. I.* *Journal of the Faculty of Science. Hokkaido University. Series I. Mathematics.* (Sapporo)
- J. Fac. Sci. Niigata Univ. Ser. I.* *Journal of the Faculty of Science. Niigata University. Series I. Mathematics, Physics and Chemistry.* (Niigata)
- J. Fac. Sci. Univ. Tokyo Sect. I.* *Journal of the Faculty of Science. University of Tokyo. Section I. Mathematics, Astronomy, Physics, Chemistry.* (Tokyo)
- J. Fluid Mech.* *Journal of Fluid Mechanics.* (London)
- J. Franklin Inst.* *Journal of the Franklin Institute.* (Philadelphia, Pa.)
- J. Gakugei Tokushima Univ.* *Journal of the Gakugei College. Tokushima University. (Natural Science).* (Tokushima)
- J. Geophys. Res.* *Journal of Geophysical Research.* (Washington, D.C.)
- J. Gujarat Univ.* *Journal of the Gujarat University.* (Gujarat)
- J. Indian Inst. Sci.* *Journal of the Indian Institute of Science.* (Bangalore)
- J. Indian Math. Soc.* *The Journal of the Indian Mathematical Society.* (Madras)
- J. Indian Soc. Agric. Statist.* *Journal of the Indian Society of Agricultural Statistics.* (New Delhi)
- J. Indian Statist. Assoc.* *Journal of the Indian Statistical Association.* (Bombay)
- J. Inst. Actuar.* *Journal of the Institute of Actuaries.* (London)
- J. Karnatak Univ.* *Journal of the Karnatak University.* (Dharwar) (Continued as: *J. Karnatak Univ. Sci.*)
- J. Karnatak Univ. Sci.* *Journal of the Karnatak University. Science.* (Dharwar) (Formerly: *J. Karnatak Univ.*)
- J. London Math. Soc.* *The Journal of the London Mathematical Society.* (London)
- J. Madras Univ. Sect. B.* *Journal of the Madras University. Section B.* (Madras)
- J. Math. Anal. Appl.* *Journal of Mathematical Analysis and Applications.* (New York)
- J. Math. and Phys.* *Journal of Mathematics and Physics.* (Cambridge, Mass.)
- J. Math. Kyoto Univ.* *Journal of Mathematics of Kyoto University.* (Kyoto)
- J. Math. Mech.* *Journal of Mathematics and Mechanics.* (Bloomington, Ind.)
- J. Math. Osaka City Univ.* *Journal of Mathematics. Osaka City University.* (Osaka)
- J. Math. Pures Appl.* *Journal de Mathématiques Pures et Appliquées.* (Paris)
- J. Math. Soc. Japan.* *Journal of the Mathematical Society of Japan.* (Tokyo)
- J. Mathematical Phys.* *Journal of Mathematical Physics.* (New York)
- J. Méc. Phys. Atmos.* *Journal de Mécanique et de Physique de l'Atmosphère.* (Paris)
- J. Mécanique.* *Journal de Mécanique.* (Paris)
- J. Mech. Phys. Solids.* *Journal of the Mechanics and Physics of Solids.* (London)
- J. Nara Gakugei Univ.* *The Journal of Nara Gakugei University.* (Nara) (Continued as: *J. Nara Gakugei Univ. Natur. Sci.*)
- J. Nara Gakugei Univ. Natur. Sci.* *The Journal of Nara Gakugei University. Natural Science.* (Nara) (Formerly: *J. Nara Gakugei Univ.*)
- J. Natur. Sci. and Math.* *The Journal of Natural Sciences and Mathematics.* (Lahore)
- J. Operations Res. Soc. Japan.* *Journal of the Operations Research Society of Japan.* (Tokyo)
- J. Opt. Soc. Amer.* *Journal of the Optical Society of America.* (New York)
- J. Osaka Inst. Sci. Tech. Part I.* *Journal of the Osaka Institute of Science and Technology. (Kinki University). Part I. Mathematics and Physics.* (Osaka)
- J. Phys. Soc. Japan.* *Journal of the Physical Society of Japan.* (Tokyo)
- J. Proc. Roy. Soc. New South Wales.* *Journal and Proceedings of the Royal Society of New South Wales.* (Sydney)
- J. Rech. Centre Nat. Rech. Sci.* *Journal des Recherches (du Centre National de la Recherche Scientifique.* (Paris)

ABBREVIATIONS OF NAMES OF JOURNALS

- J. Reine Angew. Math.* Journal für die reine und angewandte Mathematik. (Berlin)
- J. Res. Nat. Bur. Standards Sect. B.* Journal of Research of the National Bureau of Standards. B. Mathematics and Mathematical Physics. (Washington, D.C.)
- J. Res. Nat. Bur. Standards Sect. D.* Journal of Research of the National Bureau of Standards. D. Radio Propagation. (Washington, D.C.)
- J. Roy. Aero. Soc.* The Journal of the Royal Aeronautical Society. (London)
- J. Roy. Astronom. Soc. Canada.* The Journal of the Royal Astronomical Society of Canada. (Toronto, Ont.)
- J. Roy. Statist. Soc. Ser. A.* Journal of the Royal Statistical Society. Series A. (General). (London)
- J. Roy. Statist. Soc. Ser. B.* Journal of the Royal Statistical Society. Series B. (Methodological). (London)
- J. Sci. Engrg. Res.* Journal of Science and Engineering Research. (Kharagpur)
- J. Sci. Hiroshima Univ. Ser. A-I Math.* Journal of Science of the Hiroshima University. Series A-I (Mathematics). (Hiroshima)
- J. Sci. Res. Banaras Hindu Univ.* The Journal of Scientific Research of the Banaras Hindu University. (Banaras)
- J. SIAM Control Ser. A.* Journal of the Society for Industrial and Applied Mathematics on Control. Series A. (Philadelphia, Pa.)
- J. Soc. Indust. Appl. Math.* Journal of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)
- J. Symbolic Logic.* The Journal of Symbolic Logic. (New Brunswick, N.J.)
- J. Tennessee Acad. Sci.* Journal of the Tennessee Academy of Science. (Nashville, Tenn.)
- J. Univ. Bombay.* Journal of the University of Bombay. (Bombay)
- J. Washington Acad. Sci.* Journal of the Washington Academy of Sciences. (Washington, D.C.)
- J. Zosen Kiokai.* Journal of Zosen Kiokai. (Tokyo)
- Janus.* Janus. Revue Internationale de l'Histoire des Sciences, de la Médecine, de la Pharmacie et de la Technique. (Leiden)
- Japan. J. Math.* Science Council of Japan. Japanese Journal of Mathematics. (Tokyo)
- Jber. Deutsch. Math.-Verein.* Jahresbericht der Deutschen Mathematiker-Vereinigung. (Stuttgart)
- Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat.* Kabardino-Balkarskii Gosudarstvennyi Universitet. Učenyje Zapiski. Serija Fiziko-Matematičeskaja. (Nalchik)
- Kišinev. Gos. Univ. Učen. Zap.* Komitet Vysšego i Srednego Special'nogo Obrazovanija Soveta Ministrov Moldavskoi SSR. Kišinevskii Gosudarstvennyi Universitet. Učenyje Zapiski. (Kišinev)
- Kōdai Math. Sem. Rep.* Kōdai Mathematical Seminar Reports. (Tokyo)
- Köz. Mat. Lapok.* Középsiskolai Matematikai Lapok. (Budapest)
- Kristallografiya.* Akademiya Nauk SSSR. Kristallografiya. (Moscow) (Translated as: *Soviet Physics Cryst.*)
- Kumamoto J. Sci. Ser. A.* Kumamoto Journal of Science. Series A. (Mathematics, Physics and Chemistry). (Kumamoto)
- Kungl. Fysiogr. Sällsk. i Lund Handl.* Acta Regiae Societatis Physiographicae Lundensis. Kungl. Fysiografiska Sällskapet i Lund Handlingar. (Lund) (Same as: *Lunds Univ. Årsskr. Avd. 2*)
- Kungl. Svenska Vetenskapsakad. Handl.* Kungl. Svenska Vetenskapsakademiens Handlingar. (Stockholm)
- Kungl. Tekn. Högsk. Handl. Stockholm.* Kungl. Tekniska Högskolans Handlingar. Transactions of the Royal Institute of Technology, Stockholm, Sweden. (Stockholm)
- Kybernetik.* Kybernetik. (Berlin)
- Kyungpook Math. J.* Kyungpook Mathematical Journal. (Taegu)
- Latvijas PSR Zinātņu Akad. Vēstis.* Latvijas PSR Zinātņu Akadēmijas Vēstis. Izvestija Akademii Nauk Latvijas SSR. (Riga)
- Latvijas Valsts Univ. Zinātņ. Raksti.* PSRS Augstākās Izglītības Ministrija. Pēters Stučkas Latvijas Valsts Universitāte. Zinātniskie Raksti. Ministerstvo Vyššego Obrazovanija. Latvijākie Gosudarstvennyi Universitet im. Petra Stučki. Učenyje Zapiski. (Riga)
- Leningrad. Gos. Univ. Učen. Zap. Ser. Mat. Nauk.* Leningradskii Gosudarstvennyi Ordena Lenina Universitet im. A. A. Zdanova. Učenyje Zapiski. Serija Matematičeskiih Nauk. (Leningrad)
- Litovsk. Mat. Sb.* Vysšio Učebnye Zavedenija Litovskoi SSR Litovskii Matematičeskii Sbornik. (Vilna)
- Logique et Analyse.* Logique et Analyse. (Louvain)
- Luerār. Ūn. Inst. Ped. Timișoara Mat.-Fiz.* Ministerul Învățămîntului și Culturii. Lucrările Științifice ale Institutului Pedagogic Timișoara. Matematică-Fizică. (Timișoara)
- Lunds Univ. Årsskr. Avd. 2.* Acta Universitatis Lundensis. Lunds Universitets Årsskrift. Andra Avdelningen. (Lund) (Same as: *Kungl. Fysiogr. Sällsk. i Lund. Handl.*)
- L'vov. Politehn. Inst. Naučen. Zap. Ser. Fiz.-Mat.* MVO USSR. L'vovskii Politehničeskii Institut. Naučnye Zapiski. Serija Fiziko-Matematičeskaja. (Lvov)
- Magyar Tud. Akad. Mat. Fiz. Oszt. Köz. A Magyar Tudományos Akadémia Matematikai és Fizikai Tudományok Osztályának Közleményei.* (Budapest)
- Magyar Tud. Akad. Mat. Kutató Int. Köz. A Magyar Tudományos Akadémia Matematikai Kutató Intézetének Közleményei.* (Budapest)
- Management Sci.* Management Science. Journal of the Institute of Management Science. (Philadelphia, Pa.)
- Mat.-Fys. Medd. Danske Vid. Selsk.* Matematikfysiske Meddelelser udgivet af Det Kongelige Danske Videnskaberne Selskab. (Copenhagen)
- Mat.-Fys. Skr. Danske Vid. Selsk.* Matematikfysiske Skrifter udgivet af Det Kongelige Danske Videnskaberne Selskab. (Copenhagen)
- Mat.-Fys. Časopis Sloven. Akad. Vied.* Matematiko-Fyzikálny Časopis. Slovenská Akadémia Vied. (Bratislava)
- Mat. Lapok.* Matematikai Lapok. Bolyai János Matematikai Társulat. (Budapest)
- Mat. Sb.* Matematičeskii Sbornik. Novaja Serija. (Moscow)
- Matematiche (Catania).* Le Matematiche. (Catania)
- Math. Ann.* Mathematische Annalen. (Berlin-Göttingen-Heidelberg)
- Math. Centrum Amsterdam Afd. Toegepaste Wisk.* Mathematisch Centrum Amsterdam. Afd. Toegepaste Wiskunde. (Amsterdam)
- Math. Centrum Amsterdam Rap.* Mathematisch Centrum Amsterdam. Rapport. (Amsterdam)
- Math. Centrum Amsterdam Rekenafdeling.* Mathematisch Centrum Amsterdam. Rekenafdeling. (Amsterdam)
- Math. Comp.* Mathematics of Computation. (Washington, D.C.)
- Math. Gaz.* The Mathematical Gazette. (London)
- Math. J. Okayama Univ.* Mathematical Journal of Okayama University. (Okayama)
- Math. Japon.* Mathematica Japonica. (Kobe)

ABBREVIATIONS OF NAMES OF JOURNALS

- Math. Mag.* *Mathematics Magazine*. (Buffalo, N.Y.)
- Math. Nachr.* *Mathematische Nachrichten*. (Berlin)
- Math. Naturwiss. Unterricht.* *Der mathematische und naturwissenschaftliche Unterricht*. (Bonn)
- Math. Notes.* *Mathematicae Notae*. *Boletín del Instituto de Matemática*. (Rosario)
- Math.-Phys. Semesterber.* *Mathematisch-Physikalische Semesterberichte*. (Göttingen)
- Math. Reviews.* *Mathematical Reviews*. (Providence, R.I.) (Usually abbreviated as *MR* in the text of *Math. Review*)
- Math. Scand.* *Mathematica Scandinavica*. (Copenhagen)
- Math. Seminar.* *The Mathematics Seminar*. (Delhi)
- Math. Student.* *The Mathematics Student*. (Madras)
- Math. Teacher.* *The Mathematics Teacher*. (Menessa, Wis.)
- Math.-Tech.-Wirtschaft.* *Mathematik-Technik-Wirtschaft*. *Zeitschrift für moderne Rechentechnik und Automation*. (Vienna)
- Math. Z.* *Mathematische Zeitschrift*. (Berlin-Göttingen-Heidelberg)
- Mathematica (Cluj).* *Societatea de Științe Matematice și Fizice din R.P.R. Filiala Cluj*. *Mathematica*. (Cluj)
- Mathematika.* *Mathematika*. *A Journal of Pure and Applied Mathematics*. (London)
- Mathesis.* *Mathesis*. *Recueil Mathématique à l'Usage des Écoles Spéciales et des Établissements d'Instruction Moyenne*. (Mons)
- Matrix Tensor Quart.* *The Tensor Club of Great Britain*. *The Matrix and Tensor Quarterly*. (London)
- Medd. Lunds Astronom. Obs. Ser. I.* *Meddelanden från Lunds Astronomiska Observatorium*. Series I. (Lund)
- Medd. Lunds Astronom. Obs. Ser. II.* *Meddelanden från Lunds Astronomiska Observatorium*. Series II. (Lund)
- Medd. Lunds Univ. Mat. Sem.* *Meddelanden från Lunds Universitets Matematiska Seminarium*. *Communications du Séminaire Mathématique de l'Université de Lund*. (Lund)
- Mem. Acad. Ci. Madrid.* *Memorias de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid*. *Serie de Ciencias Exactas*. (Madrid)
- Mem. Amer. Math. Soc.* *Memoirs of the American Mathematical Society*. (Providence, R.I.)
- Mem. Defense Acad.* *Memoirs of the Defense Academy (Mathematics, Physics, Chemistry and Engineering)* (Yokosuka)
- Mem. Fac. Ed. Kumamoto Univ.* *Memoirs of the Faculty of Education*. *Kumamoto University*. (Kumamoto) (Continued as: *Mem. Fac. Ed. Kumamoto Univ. Sect. 1*)
- Mem. Fac. Ed. Kumamoto Univ. Sect. 1.* *Memoirs of the Faculty of Education*. *Kumamoto University*. Section 1. (Natural Science). (Kumamoto) (Formerly: *Mem. Fac. Ed. Kumamoto Univ.*)
- Mem. Fac. Engrg. Hiroshima Univ.* *Memoirs of the Faculty of Engineering*. *Hiroshima University*. (Hiroshima)
- Mem. Fac. Engrg. Miyazaki Univ.* *Memoirs of the Faculty of Engineering*. *Miyazaki University*. (Miyazaki)
- Mem. Fac. Sci. Kyushu Univ. Ser. A.* *Memoirs of the Faculty of Science*. *Kyushu University*. Series A. *Mathematics*. (Fukuoka)
- Mem. Ist. Lombardo Accad. Sci. Lett. Cl. Sci. Mat. Natur.* *Memorie dell'Istituto Lombardo*. *Accademia di Scienze e Lettere*. *Classe di Scienze Matematiche e Naturali*. (Milan)
- Mem. Kitami College Tech.* *Memoirs of the Kitami College of Technology*. (Kitami)
- Mem. Mat. Inst. "Jorge Juan".* *Consejo Superior de Investigaciones Científicas*. *Memorias de Matemática del Instituto "Jorge Juan"*. (Madrid)
- Mem. Osaka Univ. Lib. Arts Ed. Ser. B.* *Memoirs of the Osaka University of the Liberal Arts and Education*. Series B. *Natural Science*. (Osaka)
- Mem. Proc. Manchester Lit. Philos. Soc.* *Memoirs and Proceedings of the Manchester Literary & Philosophical Society*. (Manchester)
- Mem. Real Acad. Ci. Art. Barcelona.* *Memorias de la Real Academia de Ciencias y Artes de Barcelona*. (Barcelona)
- Mem. Roy. Astronom. Soc.* *Memoirs of the Royal Astronomical Society*. (London)
- Mem. School Sci. Engrg. Waseda Univ. Tokyo.* *Memoirs of the School of Science and Engineering*. *Waseda University*. Tokyo. (Tokyo)
- Mem. Soc. Astronom. Ital.* *Memorie della Società Astronomica Italiana*. (Milan)
- Mém. Soc. Roy. Sci. Liège Coll. in-4°.* *Mémoires de la Société Royale des Sciences de Liège*. Collection in-4°. (Liège)
- Mém. Soc. Roy. Sci. Liège Coll. in-8°.* *Mémoires de la Société Royale des Sciences de Liège*. Collection in-8°. (Liège)
- Mémor. Sci. Math.* *Mémorial des Sciences Mathématiques*. (Paris)
- Mémor. Sci. Phys.* *Mémorial des Sciences Physiques*. (Paris)
- Météorol.* *La Météorologie*. (Paris)
- Metrika.* *Metrika*. (Würzburg)
- Metrecon.* *Metreconomica*. *Rivista Internazionale di Economica*. (Bologna)
- Metron.* *Metron*. (Rome)
- Michigan Math. J.* *The Michigan Mathematical Journal*. (Ann Arbor, Mich.)
- Min. Proc. Roy. Irish Acad.* *Minutes of Proceedings*. *Royal Irish Academy*. (Dublin)
- Mind.* *Mind*. *A Quarterly Review of Psychology and Philosophy*. (London)
- Mitt. Inst. Angew. Math. Zürich.* *Mitteilungen aus dem Institut für angewandte Mathematik an der Eidgenössischen Technischen Hochschule in Zürich*. (Zürich)
- Mitt. Inst. Theoret. Phys. Geophys. Bergakad. Freiberg.* *Mitteilungen aus dem Institut für Theoretische Physik und Geophysik der Bergakademie Freiberg*. (Freiberg)
- Mitt. Math. Ges. Hamburg.* *Mitteilungen der mathematischen Gesellschaft in Hamburg*. (Hamburg)
- Mitt. Math. Sem. Giessen.* *Mitteilungen aus dem Mathematischen Seminar Giessen*. (Giessen) (Formerly: *Mitt. Math. Sem. Univ. Giessen*)
- Mitt. Math. Sem. Univ. Giessen.* *Mitteilungen des Mathematischen Seminars der Universität Giessen*. (Giessen) (Continued as: *Mitt. Math. Sem. Giessen*)
- Mitt. Max-Planck-Inst. Strömungsforsch.* *Mitteilungen aus dem Max-Planck-Institut für Strömungsforschung*. (Göttingen)
- Mitt. Naturforsch. Ges. Bern.* *Mitteilungen der Naturforschenden Gesellschaft Bern*. (Bern)
- Mitt. Verein. Schweiz. Versich.-Math.* *Mitteilungen der Vereinigung Schweizerischer Versicherungsmathematiker*. *Bulletin de l'Association des Actuaires Suisses*. (Bern)
- Molecular Phys.* *Molecular Physics*. (London)
- Monatsh. Deutsch. Akad. Wiss. Berlin.* *Monatsberichte der Deutschen Akademie der Wissenschaften zu Berlin*. (Berlin)
- Monatsh. Math.* *Monatshefte für Mathematik*. (Vienna)
- Monthly Notices Roy. Astronom. Soc.* *Monthly Notices of the Royal Astronomical Society*. (London)
- Moskov. Gos. Univ. Soobšč. Gos. Astronom. Inst. Sternberg.* *Moskovskij Gosudarstvennyi Universitet im. M. V. Lomonosova*. *Soobščeniya Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Sternberga*. (Moscow)

ABBREVIATIONS OF NAMES OF JOURNALS

- Moskov. Gos. Univ. Trudy Gos. Astronom. Inst. Sternberg.* Moskovskii Gosudarstvennyi Universitet im. M. V. Lomonosova. Trudy Gosudarstvennogo Astronomicheskogo Instituta im. P. K. Sternberga. (Moscow)
- Moskov. Oblast. Ped. Inst. Uchen. Zap.* Moskovskii Oblastnoi Pedagogicheskii Institut. Uchenye Zapiski. (Moscow)
- M.R.* Mathematical Reviews. (Providence, R.I.)
- Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II.* Nachrichten der Akademie der Wissenschaften in Göttingen. II. Mathematisch-Physikalische Klasse. (Göttingen)
- Nagoya Math. J.* Nagoya Mathematical Journal. (Nagoya)
- Nat. Bur. Standards Appl. Math. Ser.* National Bureau of Standards. Applied Mathematics Series. (Washington, D.C.)
- Nat. Bur. Standards Tech. Note.* National Bureau of Standards. Technical Note. (Washington, D.C.)
- Nat. Luchtvaartlab. Amsterdam Rep.* Nationaal Luchtvaartlaboratorium. National Aeronautical Research Institute, Amsterdam. Report. (Amsterdam)
- Natur. Sci. Rep. Ochanomizu Univ.* Natural Science Report of the Ochanomizu University. (Tokyo)
- Nature.* Nature. (London)
- Naturwissenschaften.* Die Naturwissenschaften. (Berlin-Göttingen-Heidelberg)
- Naval Res. Logist. Quart.* Naval Research Logistics Quarterly. (Washington, D.C.)
- Navigation.* Navigation. Journal of the Institute of Navigation. (Los Angeles, Calif.)
- Nederl. Akad. Wetensch. Indag. Math.* Koninklijke Nederlandse Akademie van Wetenschappen. Indagationes Mathematicae ex Actis Quibus Titulus. Proceedings of the Section of Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Proc. Ser. A*)
- Nederl. Akad. Wetensch. Proc. Ser. A.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series A. Mathematical Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Indag. Math.*)
- Nederl. Akad. Wetensch. Proc. Ser. B.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series B. Physical Sciences. (Amsterdam)
- Nederl. Akad. Wetensch. Verslag Afd. Natuurk.* Koninklijke Nederlandse Akademie van Wetenschappen. Verslag van de Gewone Vergadering van de Afdeling Natuurkunde. (Amsterdam)
- Nederl. Tijdschr. Natuurk.* Nederlands Tijdschrift voor Natuurkunde. (Utrecht)
- New Zealand J. Sci.* New Zealand Journal of Science. (Wellington)
- Nieuw Arch. Wisk.* Nieuw Archief voor Wiskunde. (Groningen)
- Nieuw Tijdschr. Wisk.* Nieuw Tijdschrift voor Wiskunde. (Groningen-Djakarta)
- Nordisk Mat. Tidsskr.* Nordisk Matematisk Tidsskrift. (Oslo)
- Nordisk Tidsskr. Informations-Behandling.* Nordisk Tidsskrift for Informations-Behandling. (Copenhagen)
- Norske Vid. Selsk. Forh. (Trondheim).* Det Kongelige Norske Videnskabers Selskabs Forhandling. (Trondheim)
- Norske Vid. Selsk. Skr. (Trondheim).* Det Kongelige Norske Videnskabers Selskabs Skrifter. (Trondheim)
- Notas Mat.* Notas de Matemática. (Rio de Janeiro)
- Notre Dame J. Formal Logic.* Notre Dame Journal of Formal Logic. (Notre Dame, Ind.)
- Nova Acta Soc. Sci. Upsal.* Nova Acta Regiae Societatis Scientiarum Upsaliensis. (Uppsala)
- Nuclear Fusion.* Nuclear Fusion. (Vienna)
- Nuclear Phys.* Nuclear Physics. (Amsterdam)
- Nuclear Sci. Abstracts.* Nuclear Science Abstracts. (Oak Ridge, Tenn.)
- Numer. Math.* Numerische Mathematik. (Berlin-Göttingen-Heidelberg)
- Nuovo Cimento.* Il Nuovo Cimento. (Bologna)
- O.N.E.R.A. Publ.* Office National d'Études et de Recherches Aéronautiques. Publication. (Paris)
- Observatory.* The Observatory. A Review of Astronomy. (Halleham)
- Operations Res.* Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.) (Sometimes abbreviated as *OR* in *Math. Reviews*)
- Optica Acta.* Optica Acta. (London)
- Optik.* Optik. Zeitschrift für das gesamte Gebiet der Licht- und Elektronenoptik. (Stuttgart)
- Osaka Math. J.* Osaka Mathematical Journal. (Osaka)
- Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II.* Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung II. Mathematik, Astronomie, Physik, Meteorologie und Technik. (Vienna)
- Österreich. Ing.-Arch.* Österreichisches Ingenieur-Archiv. (Vienna)
- Pacific J. Math.* Pacific Journal of Mathematics. (Berkeley, Calif.)
- Papers and Proc. Roy. Soc. Tasmania.* Papers and Proceedings of the Royal Society of Tasmania. (Hobart)
- Period. Mat.* Periodico di Matematiche. (Bologna)
- Perm. Gos. Univ. Uchen. Zap. Mat.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya RSFSR. Permakii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Uchenye Zapiski. Matematika. (Perm)
- Philos. Mag.* The Philosophical Magazine. A Journal of Theoretical, Experimental and Applied Science. (London)
- Philos. Rev.* The Philosophical Review. (Ithaca, N.Y.)
- Philos. Sci.* Philosophy of Science. (Baltimore, Md.)
- Philos. Trans. Roy. Soc. London Ser. A.* Philosophical Transactions of the Royal Society of London. Series A. Mathematical and Physical Sciences. (London)
- Phys. Fluids.* The Physics of Fluids. (New York)
- Phys. Lett.* Physics Letters. (Amsterdam)
- Phys. Norveg.* Physica Norvegica. (Oslo)
- Phys. Rev.* The Physical Review. (New York)
- Phys. Rev. Lett.* Physical Review Letters. (New York)
- Physica.* Physica. (Amsterdam)
- Polish Rev.* The Polish Review. (New York)
- Polska Biblio. Analit. Mech.* Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Polska Bibliografia Analizy. Mechanika. Polish Scientific Abstracts. Mechanics. (Warsaw)
- Portugal. Math.* Portugaliae Mathematica. (Lisbon)
- Portugal. Phys.* Portugaliae Physica. (Lisbon)
- Práce Brn. Českoslov. Akad. Véd.* Práce Brněnské Základny Československé Akademie Véd. Acta Academiae Scientiarum Českoslovenicae Basis Brunensis. (Brno)
- Prace Mat. Roczniki Polskiego Towarzystwa Matematycznego. Seria I.* Prace Matematyczne. (Warsaw)

ABBREVIATIONS OF NAMES OF JOURNALS

- Prakt. Akad. Athēnōn.* Πρακτικά τῆς Ἀκαδημίας Ἀθηνῶν. (Athens)
- Prikl. Mat. Meh.* Akademija Nauk SSSR. Otdelenie Tehničeskikh Nauk. Institut Mehaniki. Prikladnaja Matematika i Mehanika. (Moscow) (Translated as: *J. Appl. Math. Mech.*)
- Prikladna Meh.* Akademija Nauk Ukraïns'koï RSR. Institut Mehaniki. Prikladna Mehanika. (Kiev)
- Problemy Kibernet.* Problemy Kibernetiki. (Moscow)
- Problemy Peredači Informacii.* Akademija Nauk SSSR. Laboratorija Sistem Peredači Informacii. Problemy Peredači Informacii. (Moscow)
- Proc. Amer. Math. Soc.* Proceedings of the American Mathematical Society. (Providence, R.I.)
- Proc. Cambridge Philos. Soc.* Proceedings of the Cambridge Philosophical Society. (Cambridge, England)
- Proc. Edinburgh Math. Soc.* Proceedings of the Edinburgh Mathematical Society. (Edinburgh)
- Proc. Edinburgh Math. Soc. Edinburgh Math. Notes.* Proceedings of the Edinburgh Mathematical Society. Edinburgh Mathematical Notes. (Edinburgh)
- Proc. Egyptian Acad. Sci.* Proceedings of the Egyptian Academy of Sciences. (Cairo)
- Proc. Fac. Engrg. Keio Univ.* Proceedings of the Fujihara Memorial Faculty of Engineering. Keio University. (Tokyo)
- Proc. Glasgow Math. Assoc.* Proceedings of the Glasgow Mathematical Association. (Glasgow)
- Proc. IEEE.* Proceedings of the IEEE. (New York)
- Proc. Indian Acad. Sci. Sect. A.* Proceedings of the Indian Academy of Sciences. Section A. (Bangalore)
- Proc. Indian Acad. Sci. Sect. B.* Proceedings of the Indian Academy of Sciences. Section B. (Bangalore)
- Proc. Indiana Acad. Sci.* Proceedings of the Indiana Academy of Science. (Indianapolis, Ind.)
- Proc. Inst. Elec. Engrs. B.* The Proceedings of the Institution of Electrical Engineers. Part B. Radio and Electronic Engineering (including Communication Engineering). (London)
- Proc. Inst. Elec. Engrs. C.* The Proceedings of the Institution of Electrical Engineers. Part C. Monographs. (London)
- Proc. Inst. Mech. Engrs.* Proceedings of the Institution of Mechanical Engineers. (London)
- Proc. Inst. Statist. Math.* The Proceedings of the Institute of Statistical Mathematics. (Tokyo)
- Proc. Iowa Acad. Sci.* Proceedings of the Iowa Academy of Science. (Des Moines, Iowa)
- Proc. Iraqi Sci. Soc.* Proceedings of the Iraqi Scientific Societies. (Baghdad)
- Proc. Japan Acad.* Proceedings of the Japan Academy. (Tokyo)
- Proc. London Math. Soc.* Proceedings of the London Mathematical Society. (London)
- Proc. Math. Phys. Soc. U.A.R.* Proceedings of the Mathematical and Physical Society of U.A.R. (Cairo)
- Proc. Nat. Acad. Sci. India Sect. A.* Proceedings of the National Academy of Sciences, India. Section—A. (Allahabad)
- Proc. Nat. Acad. Sci. U.S.A.* Proceedings of the National Academy of Sciences of the United States of America. (Washington, D.C.)
- Proc. Nat. Inst. Sci. India Part A.* Proceedings of the National Institute of Sciences of India. Part A. Physical Sciences. (New Delhi)
- Proc. Pakistan Statist. Assoc.* Proceedings of the Pakistan Statistical Association. (Lahore)
- Proc. Phys. Soc.* Proceedings of the Physical Society. (London)
- Proc. Rajasthan Acad. Sci.* The Proceedings of The Rajasthan Academy of Sciences. (Pilani)
- Proc. Roy. Irish Acad. Sect. A.* Proceedings of the Royal Irish Academy. Section A. (Dublin)
- Proc. Roy. Soc. Edinburgh Sect. A.* Proceedings of the Royal Society of Edinburgh. Section A. (Mathematical and Physical Sciences). (Edinburgh)
- Proc. Roy. Soc. New Zealand.* Proceedings of the Royal Society of New Zealand. (Wellington)
- Proc. Roy. Soc. Ser. A.* Proceedings of the Royal Society. Series A. Mathematical and Physical Sciences. (London)
- Proc. Vibration Problems.* Polish Academy of Sciences. Institute of Basic Technical Problems. Proceedings of Vibration Problems. (Warsaw)
- Progr. Theoret. Phys.* Progress of Theoretical Physics. (Kyoto)
- Psychometrika.* Psychometrika. A Journal Devoted to the Development of Psychology as a Quantitative Rational Science. (Chapel Hill, N.C.)
- Publ. Astronom. Soc. Pacific.* Publications of the Astronomical Society of the Pacific. (San Francisco, Calif.)
- Publ. Inst. Math. (Beograd).* Institut Mathématique. Publications de l'Institut Mathématique. Nouvelle Série. (Belgrade)
- Publ. Inst. Statist. Univ. Paris.* Publications de l'Institut de Statistique de l'Université de Paris. (Paris)
- Publ. Math. Debrecen.* Publicationes Mathematicae. (Debrecen)
- Publ. Sci. Tech. Ministère de l'Air (Paris).* Publications Scientifiques et Techniques du Ministère de l'Air. (Paris)
- Publ. Sci. Tech. Ministère de l'Air (Paris) Notes Tech.* Publications Scientifiques et Techniques du Ministère de l'Air. Notes Techniques. (Paris)
- Publ. Sci. Univ. Alger Sér. A.* Publications Scientifiques de l'Université d'Alger. Série A. Sciences Mathématiques. (Algiers)
- Publ. Sémin. Géom. Univ. Neuchâtel.* Publications du Séminaire de Géométrie de l'Université de Neuchâtel. (Neuchâtel)
- Quart. Appl. Math.* Quarterly of Applied Mathematics. (Providence, R.I.)
- Quart. J. Math. Oxford Ser.* The Quarterly Journal of Mathematics, Oxford Second Series. (Oxford)
- Quart. J. Mech. Appl. Math.* The Quarterly Journal of Mechanics and Applied Mathematics. (Oxford)
- Quart. J. Roy. Astronom. Soc.* The Quarterly Journal of the Royal Astronomical Society. (London)
- Quart. Rev. Sci. Publ.* Polish Academy of Sciences. Distribution Centre for Scientific Publications. Quarterly Review of Scientific Publications. (Warsaw)
- RAAG Newsletter.* RAAG Newsletter. (Tokyo)
- RAAG Res. Notes.* RAAG Research Notes. (Tokyo)
- Rad Jugoslav. Akad. Znan. Umjet. Odjel Mat. Fiz. Tehn. Nauke.* Rad Jugoslavenske Akademije Znanosti i Umjetnosti. Odjel za Matematičke, Fizičke i Tehničke Nauke. (Zagreb)

ABBREVIATIONS OF NAMES OF JOURNALS

- Radio Engrg. and Electronics.* Radio Engineering and Electronics. (Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication). (New York) (Translation of *Radiotekhn. i Elektron.*)
- Radiotekhn. i Elektron.* Akademija Nauk SSSR. Radiotekhnika i Elektronika. (Moscow) (Translated as: *Radio Engrg. and Electronics*)
- Rasprostr. Radiovoln i Ionosfera.* Akademija Nauk SSSR. Trudy Instituta Zemnogo Magnetizma, Ionosfery i Rasprostraneniya Radiovoln. Rasprostraneniya Radiovoln i Ionosfera. (Moscow)
- RCA Rev.* RCA Review. (New York)
- Rech. Aéro.* La Recherche Aéronautique. (Paris) (Continued as: *Recherche Aérospat.*)
- Recherche Aérospat.* La Recherche Aérospatiale. (Paris) (Formerly: *Rech. Aéro.*)
- Rend. Accad. Naz. dei XL.* Rendiconti, Accademia Nazionale dei XL. (Rome)
- Rend. Accad. Sci. Fis. Mat. Napoli.* Società Nazionale di Napoli. Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche. (Naples)
- Rend. Circ. Mat. Palermo.* Rendiconti del Circolo Matematico di Palermo. (Palermo)
- Rend. Mat. e Appl.* Università di Roma. Istituto Nazionale di Alta Matematica. Rendiconti di Matematica e delle sue Applicazioni. (Rome)
- Rend. Sem. Fac. Sci. Univ. Cagliari.* Rendiconti del Seminario della Facoltà di Scienze della Università di Cagliari. (Cagliari)
- Rend. Sem. Mat. Fis. Milano.* Rendiconti del Seminario Matematico e Fisico di Milano. (Milan)
- Rend. Sem. Mat. Univ. Padova.* Rendiconti del Seminario Matematico dell'Università di Padova. (Padova)
- Rep. Inst. Sci. Tech. Univ. Tokyo.* The Reports of the Institute of Science and Technology, University of Tokyo. (Tokyo)
- Rep. Lib. Arts Sci. Fac. Shizuoka Univ. Sect. Natur. Sci.* Reports of Liberal Arts and Science Faculty. Shizuoka University. Section Natural Science. (Shizuoka)
- Rep. Res. Inst. Appl. Mech. Kyushu Univ.* Reports of Research Institute for Applied Mechanics. Kyushu University. (Fukuoka)
- Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* Reports of Statistical Application Research, Union of Japanese Scientists and Engineers. (Tokyo)
- República Venezuela Bol. Acad. Ci. Fis. Mat. Natur.* República de Venezuela. Boletín de la Academia de Ciencias Físicas, Matemáticas y Naturales. (Caracas)
- Res. Bull. Panjab Univ.* Research Bulletin of the Panjab University. (Hoshiarpur)
- Res. Rep. Nagaoka Tech. Colls.* Research Reports of the Nagaoka Technical College. (Nagaoka)
- Rev. Acad. Ci. Madrid.* Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. (Madrid)
- Rev. Acad. Ci. Zaragoza.* Revista de la Academia de Ciencias Exactas, Físico-Químicas y Naturales de Zaragoza. (Zaragoza)
- Rev. Acad. Colombiana Ci. Exact. Fis. Natur.* Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales. (Bogotá)
- Rev. Ci. (Lima).* Revista de Ciencias. (Lima)
- Rev. Fac. Ci. Univ. Coimbra.* Revista de Faculdade de Ciências da Universidade de Coimbra. (Coimbra)
- Rev. Française Traitement Information [Chiffres].* Revue Française de Traitement de l'Information. Chiffres. (Paris)
- Rev. Gén. Sci. Pures Appl.* Revue Générale des Sciences Pures et Appliquées et Bulletin de l'Association Française pour l'Avancement des Sciences. (Paris)
- Rev. Histoire Sci. Appl.* Revue d'Histoire des Sciences et de leurs Applications. (Paris)
- Rev. Inst. Internat. Statist.* Revue de l'Institut International de Statistique. Review of the International Statistical Institute. (The Hague)
- Rev. Mat. Elem.* Revista de Matemáticas Elementales. (Bogotá)
- Rev. Mat. Hisp.-Amer.* Revista Matemática Hispano-Americana. (Madrid)
- Rev. Math. Pures Appl.* Académie de la République Populaire Roumaine. Revue de Mathématiques Pures et Appliquées. (Bucharest)
- Rev. Méc. Appl.* Académie de la République Populaire Roumaine. Revue de Mécanique Appliquée. (Bucharest)
- Rev. Mexicana Fis.* Revista Mexicana de Física. (Mexico, D.F.)
- Rev. Modern Phys.* Reviews of Modern Physics. (New York)
- Rev. Optique.* Revue d'Optique Théorique et Instrumentale. (Paris)
- Rev. Un. Mat. Argentina.* Revista de la Unión Matemática Argentina. (Buenos Aires)
- Rice Univ. Studies.* Rice University Studies. (Houston, Tex.)
- Ricerca (Napoli).* La Ricerca. Rivista di Matematiche Pure ed Applicate. (Naples)
- Ricerche Mat.* Ricerche di Matematica. (Naples)
- Riv. Mat. Univ. Parma.* Rivista di Matematica della Università di Parma. (Parma)
- Rjazansk. Gos. Ped. Inst. Učen. Zap.* Rjazanskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Ryazan)
- Rostov-na-Donu Gos. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap.* Rostovskij-na-Donu Gosudarstvennyj Pedagogičeskij Institut. Fiziko-Matematičeskij Fakul'tet. Učenyje Zapiski. (Rostov-on-Don)
- Rozprawy Československé Akad. Věd.* Rozprawy Československé Akademie Věd. (Prague)
- Rozprawy Inst. Polska Akademii Nauk.* Instytut Podstawowych Problemów Techniki. Rozprawy Inżynierskie. (Warsaw)
- Rozprawy Mat.* Polska Akademia Nauk. Instytut Matematyczny. Rozprawy Matematyczne. (Warsaw)
- Russian Math. Surveys.* Russian Mathematical Surveys. (A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskich Nauk*). (London) (Translation of *Uspehi Mat. Nauk*)
- RŽ Astronom.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Otdel'nyj Vypusk 51. Astronomija. (Moscow) (Formerly: *RŽ Astronom. Geod.*)
- RŽ Astronom. Geod.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Astronomija Geodezija Referaty. (Moscow) (Continued as: *RŽ Astronom. and RŽ Geodes.*)
- RŽ Geodes.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Otdel'nyj Vypusk 52. Geodezija. (Moscow) (Formerly: *RŽ Astronom. Geod.*)
- RŽMat.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Matematika Referaty. (Moscow)
- RŽMeh.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Mehanika Referaty. (Moscow)
- SA.* Science Abstracts. Section A. Physics Abstracts. (London)
- Sankhyā Ser. A.* Sankhyā. The Indian Journal of Statistics. Series A. (Calcutta)
- Sankhyā Ser. B.* Sankhyā. The Indian Journal of Statistics. Series B. (Calcutta)
- S.-B. Berlin. Math. Ges.* Sitzungsberichte der Berliner Mathematischen Gesellschaft. (Berlin)

ABBREVIATIONS OF NAMES OF JOURNALS

S.-B. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech. Sitzungsberichte der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)

S.-B. Finn. Akad. Wiss. Sitzungsberichte der Finnischen Akademie der Wissenschaften. Proceedings of the Finnish Academy of Science and Letters. (Helsinki)

S.-B. Heidelberger Akad. Wiss. Math.-Natur. Kl. Sitzungsberichte der Heidelberger Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. (Heidelberg)

S.-B. Phys.-Med. Soc. Erlangen. Sitzungsberichte der physikalisch-medizinischen Societät zu Erlangen. (Erlangen)

Sb. Vysoké. Učené Tech. Brno. Sborník Vysokého Učené Technického v Brně. (Brno)

Schiffstechnik. Schiffstechnik. (Hamburg)

Schr. Math. Inst. Univ. Münster. Schriftenreihe des Mathematischen Instituts der Universität Münster. (Münster)

Schweiz. Z. Vermessung. Kulturtech. Photogr. Schweizerische Zeitschrift für Vermessung, Kulturtechnik und Photogrammetrie. Revue Technique Suisse des Mensurations, du Génie Rural et de Photogrammétrie. (Winterthur)

Sci. Abstracts Sect. A. Science Abstracts. Section A. Physics Abstracts. (London) (Usually abbreviated SA in the text of Math. Reviews)

Sci. Abstracts Sect. B. Science Abstracts. Section B. Electrical Engineering Abstracts. (London)

Sci. Amer. Scientific American. (New York)

Sci. Information Notes. Scientific Information Notes. (Washington, D.C.)

Sci. Papers College Gen. Ed. Univ. Tokyo. Scientific Papers of the College of General Education. University of Tokyo. (Tokyo)

Sci. Papers Inst. Phys. Chem. Res. Scientific Papers of the Institute of Physical and Chemical Research. (Tokyo)

Sci. Proc. Roy. Dublin Soc. Ser. A. The Scientific Proceedings of the Royal Dublin Society. Series A. (Dublin)

Sci. Proc. Roy. Dublin Soc. Ser. B. The Scientific Proceedings of the Royal Dublin Society. Series B. (Dublin)

Sci. Rep. Fac. Lib. Arts Ed. Gifu Univ. Natur. Sci. Science Report of the Faculty of Liberal Arts and Education, Gifu University. (Natural Science). (Gifu)

Sci. Rep. Fac. Lit. Sci. Hiroaki Univ. Science Reports of the Faculty of Literature and Science. Hiroaki University. (Hiroaki)

Sci. Rep. Kagoshima Univ. Science Reports of the Kagoshima University. (Kagoshima)

Sci. Rep. Kanazawa Univ. The Science Reports of the Kanazawa University. (Kanazawa)

Sci. Rep. Res. Inst. Theoret. Phys. Hiroshima Univ. Scientific Reports of the Research Institute for Theoretical Physics, Hiroshima University. (Hiroshima)

Sci. Rep. Res. Inst. Tōhoku Univ. Ser. A. The Science Reports of the Research Institutes. Tōhoku University. Series A. (Physics, Chemistry and Metallurgy). (Sendai)

Sci. Rep. Saitama Univ. Ser. A. The Science Reports of the Saitama University. Series A. Mathematics, Physics and Chemistry. (Urawa)

Sci. Rep. Tōhoku Univ. Ser. I. The Science Reports of the Tōhoku University. First Series. (Physics, Chemistry, Astronomy). (Sendai)

Sci. Rep. Tokyo Kyoiku Daigaku Sect. A. Science Reports of the Tokyo Kyoiku Daigaku. Section A. (Tokyo)

Sci. Rep. Yokohama Nat. Univ. Sect. I. Science Reports of the Yokohama National University. Section I. Mathematics, Physics. (Yokohama)

Sci. Sinica. Scientia Sinica. (Peking)

Scientia. Scientia. International Review of Scientific Synthesis. (Como)

Scripta Math. Scripta Mathematica. A Quarterly Journal Devoted to the Philosophy, History, and Expository Treatment of Mathematics. (New York)

Shuxue Jinzhan. Shuxue Jinzhan. (Shanghai)

SIAM Rev. SIAM Review. A Publication of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)

Sibirsk. Mat. Ž. Sibirskii Matematicheskii Zhurnal. (Moscow)

Simon Stevin. Simon Stevin. Wis-en Natuurkundig Tijdschrift. (Groningen-Djakarta)

Skand. Aktuarietidskr. Skandinavisk Aktuarietidskrift. (Uppsala)

Skr. Norske Vid.-Akad. Oslo I. Skrifter Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Mat.-Naturv. Klasse. (Oslo)

Smithsonian Contrib. to Astrophys. Smithsonian Contributions to Astrophysics. (Washington, D.C.)

Soc. Actuar. Trans. Society of Actuaries. Transactions. (Chicago, Ill.)

Soc. Parana. Mat. Anuário. Anuário da Sociedade Paranaense de Matemática. (Curitiba)

Soc. Sci. Fenn. Comment. Phys.-Math. Societas Scientiarum Fennica. Commentationes Physico-Mathematicae. (Helsinki)

Soobš. Akad. Nauk Gruz. SSR. Soobščenija Akademii Nauk Gruzinskoi SSR. (Tiflis)

Soviet Astronom. AJ. Soviet Astronomy. AJ. (A translation of *Astronomicheskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Astronom. Ž.*)

Soviet Math. Dokl. Soviet Mathematics. Doklady. (A translation of the mathematics section of *Doklady Akademii Nauk SSSR*). (Providence, R.I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)

Soviet Physics Acoust. Soviet Physics. Acoustics. (A translation of *Akusticheskii Zhurnal* of the Academy of Sciences of the USSR) (New York) (Translation of *Akust. Ž.*)

Soviet Physics Cryst. Soviet Physics. Crystallography. (A translation of the journal *Kristallografiya* of the Academy of Sciences of the USSR). (New York) (Translation of *Kristallografiya*)

Soviet Physics Dokl. Soviet Physics. Doklady. (A translation of the physics sections of *Doklady Akademii Nauk SSSR*). (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)

Soviet Physics JETP. Soviet Physics. JETP. (A translation of *Ž. Eksperimental'noi i Teoreticheskoi Fiziki* of the USSR). (New York) (Translation of *Ž. Eksper. Teoret. Fiz.*)

Soviet Physics Solid State. Soviet Physics. Solid State. (A translation of the journal *Fizika Tverdogo Tela* of the Academy of Sciences of the USSR). (New York) (Translation of *Fiz. Tverd. Tela*)

Soviet Physics Tech. Phys. Soviet Physics. Technical Physics. (A translation of *Žurnal Tehnicheskoi Fiziki* of the Academy of Sciences of the USSR). (New York) (Translation of *Ž. Tehn. Fiz.*)

Soviet Physics Uspekhi. Soviet Physics. Uspekhi. (A translation of *Uspehi Fizicheskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R.). (New York) (Translation of *Uspekhi Fiz. Nauk*)

ABBREVIATIONS OF NAMES OF JOURNALS

- Spisy Přirod. Fak. Univ. Brno.* Spisy Přírodovědecké Fakulty University v Brně. Trudy Estestvenno-Istoričeskogo Fakul'teta Universiteta v g. Brno. Publications de la Faculté des Sciences de l'Université à Brno. (Brno)
- SRI J.* SRI Journal. (Menlo Park, Calif.)
- Statistica (Bologna).* Statistica. (Bologna)
- Statistica Neerlandica.* Statistica Neerlandica. Organ van de Vereniging voor Statistiek. (The Hague)
- Stroje na Zpracování Informací.* Stroje na Zpracování Informací. (Prague)
- Studia Logica.* Polska Akademia Nauk. Komitet Filozoficzny. Studia Logica. (Warsaw)
- Studia Math.* Polska Akademia Nauk. Studia Mathematica. (Warsaw)
- Studia Univ. Babeş-Bolyai Ser. I Math. Phys.* Studia Universitatis Babeş-Bolyai. Series I. Mathematica Physica. (Cluj)
- Sudhoffs Arch.* Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften. (Wiesbaden)
- Sûgaku.* Sûgaku. (Tokyo)
- Summa Brasil. Math.* Summa Brasiliensis Mathematicae. (Rio de Janeiro)
- Svenska Aeroplan A. B. Tech. Notes.* SAAB Aircraft Company. Svenska Aeroplan Aktiebolaget. Technical Notes. (Linköping)
- Tartu Riikl. Ül. Toimetised.* Tartu Riikliku Ülikooli Toimetised. Učenyje Zapiski Tartuskogo Gosudarstvennogo Universiteta. Matematika-Loodusteaduskonna Tööd. Trudy Estestvenno-Matematičeskogo Fakul'teta. (Tallin)
- Tashkent. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosvetšeniya Uzbekskoi SSR. Tashkentil Gosudarstvennyi Pedagogičeskii Institut im. Nizami. Učenyje Zapiski. Fiziko-Matematičeskii. (Tashkent)
- Tbilise. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk.* Tbiliskii Gosudarstvennyi Universitet. Trudy. Serija Mehaniko-Matematičeskiih Nauk. (Tiflis)
- Tech. Moderne.* La Technique Moderne. (Paris)
- Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* Technical Reports of the Engineering Research Institute. Kyoto University. (Kyoto)
- Tech. Rep. Osaka Univ.* Technology Reports of the Osaka University. (Osaka)
- Tech. Transl.* Technical Translations. (Washington, D.C.)
- Technometrics.* Technometrics. A Journal of Statistics for the Physical, Chemical and Engineering Sciences. (Princeton, N.J.)
- Tensor.* Tensor. New Series. (Sapporo)
- Teor. Verojatnost. i Primenen.* Akademija Nauk SSSR. Teorija Verojatnostei i ee Primeneniya. (Moscow) (Translated as: *Theor. Probability Appl.*)
- Thalès.* Thalès. Recueil Annuel des Travaux de l'Institut d'Histoire des Sciences et des Techniques de l'Université de Paris. (Paris)
- Theor. Probability Appl.* Theory of Probability and its Applications. (An English translation of the Soviet journal *Teorija Verojatnostei i ee Primeneniya*). (Philadelphia, Pa.) (Translation of *Teor. Verojatnost. i Primenen.*)
- Theoria (Lund).* Theoria. A Swedish Journal of Philosophy and Psychology. (Lund)
- Tôhoku Math. J.* The Tôhoku Mathematical Journal. (Sendai)
- Tomak. Gos. Univ. Učen. Zap.* Tomakil Gosudarstvennyi Universitet im. V. V. Kułyševa. Učenyje Zapiski. (Tomak)
- Topology.* Topology. An International Journal of Mathematics. (Oxford)
- Trabajos Estadist.* Trabajos de Estadística. (Madrid)
- Trans. Amer. Inst. Elec. Engrs.* Transactions of the American Institute of Electrical Engineers. (New York)
- Trans. Amer. Math. Soc.* Transactions of the American Mathematical Society. (Providence, R.I.)
- Trans. Amer. Philos. Soc.* Transactions of the American Philosophical Society Held at Philadelphia for Promoting Useful Knowledge. (Philadelphia, Pa.)
- Trans. ASME Ser. B. J. Engrg. Indust.* Transactions of the ASME. Series B. Journal of Engineering for Industry. (New York)
- Trans. ASME Ser. E. J. Appl. Mech.* Transactions of the ASME. Series E. Journal of Applied Mechanics. (New York)
- Trans. Faraday Soc.* Transactions of the Faraday Society. (London)
- Trans. New York Acad. Sci.* Transactions of the New York Academy of Sciences. (New York)
- Trans. Roy. Soc. Edinburgh.* Transactions of the Royal Society of Edinburgh. (Edinburgh)
- Trans. Roy. Soc. South Africa.* Transactions of the Royal Society of South Africa. (Cape Town)
- Trav. Soc. Sci. Lett. Wrocław Ser. B.* Travaux de la Société des Sciences et des Lettres de Wrocław. Seria B. (Wrocław)
- Trudy Akad. Nauk Litov. SSR Ser. B.* Lietuvos TSR Mokslų Akademijos. Darbai. Serija B. Akademii Nauk Litovskoi SSR. Trudy. Serija B. (Vilna)
- Trudy Inst. Istor. Estest. Tehn.* Akademija Nauk SSSR. Trudy Instituta Istorii Estestvoznaniya i Tehniki. (Moscow)
- Trudy Inst. Teoret. Astronom.* Akademija Nauk SSSR. Trudy Instituta Teoretičeskoi Astronomii. (Moscow)
- Trudy Leningrad. Tehn. Inst. Trudy Kafedr. Meh. Fak.* Ministerstvo Vyššego Obrazovaniya SSSR. Trudy Leningradskogo Tehnologičeskogo Instituta im. Lensoveta. Trudy Kafedr. Mehaničeskogo Fakul'teta. (Leningrad)
- Trudy Mat. Inst. Steklov.* Akademija Nauk Sojuza Sovetskikh Socialističeskikh Respublik. Trudy Matematičeskogo Instituta im. V. A. Steklova. (Moscow-Leningrad)
- Trudy Moskov. Mat. Obšč.* Trudy Moskovskogo Matematičeskogo Obščestva. (Moscow)
- Trudy Samarkand. Gos. Univ. Mat.* Ministerstvo Vyššego i Srednego Special'nogo Obrazovaniya UzSSR. Trudy Samarkandakogo Gosudarstvennogo Universiteta im. A. Navoi. Matematika. (Samarkand)
- Trudy Sem. Vektor. Tenzor. Anal.* Trudy Seminara po Vektornomu i Tenzornomu Analizu s ih Prilozhenijami k Geometrii, Mehaniki i Fiziki. (Moscow)
- Trudy Tashkent. Gos. Univ.* Trudy Tashkentakogo Gosudarstvennogo Universiteta im. V. I. Lenina. Matematika. (Tashkent)
- Trudy Tomak. Gos. Univ. Ser. Meh.-Mat. Geom. Sb.* Trudy Tomakogo Gosudarstvennogo Universiteta im. V. V. Kułyševa. Serija Mehaniko-Matematičeskaja. Geometričeskii Sbornik. (Tomak)
- Trudy Vyčisl. Centra Akad. Nauk Gruz. SSR.* Akademija Nauk Gruzinskoi SSR. Trudy Vyčislitel'nogo Centra. (Tiflis)
- Tul'sk. Gos. Ped. Inst. Učen. Zap. Fiz.-Mat. Nauk.* Tul'skii Gosudarstvennyi Pedagogičeskii Institut im. L. N. Tolstogo. Učenyje Zapiski. Fiziko-Matematičeskii Nauki. (Tula)
- U.S.S.R. Comput. Math. and Math. Phys.* U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyčisl. Mat. i Mat. Fiz.*)
- Učen. Zap. Borisoglebsk. Gos. Ped. Inst.* Ministerstvo Prosvetšeniya RSFSR. Učenyje Zapiski. Borisoglebskogo Gosudarstvennogo Pedagogičeskogo Instituta. (Borisoglebsk)
- Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk.* Ministerstvo Prosvetšeniya RSFSR. Karol'skii Pedagogičeskii Institut. Učenyje Zapiski. Serija Fiziko-Matematičeskiih Nauk. (Petrozavodsk)
- Ukrain. Mat. Ž.* Akademija Nauk Ukrainakoi SSR. Institut Matematiki. Ukrainakii Matematičeskii Žurnal. (Kiev)
- Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz.* Univerzitet u Beogradu. Publikacije Elektrotehničkog Fakul'teta. Serija Matematika i Fizika. (Belgrade)

ABBREVIATIONS OF NAMES OF JOURNALS

- Univ. Buenos Aires Contrib. Ci. Ser. Fis.* Universidad de Buenos Aires. Facultad de Ciencias Exactas, Físicas y Naturales. Contribuciones Científicas. Serie Física. (Buenos Aires)
- Univ. Buenos Aires Contrib. Ci. Ser. Mat.* Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Contribuciones Científicas. Serie Matemática. (Buenos Aires)
- Univ. California Publ. Math.* University of California. Publications in Mathematics. (Berkeley-Los Angeles, Calif.)
- Univ. California Publ. Statist.* University of California. Publications in Statistics. (Berkeley-Los Angeles, Calif.)
- Univ. Central Venezuela Bol. Fac. Ing.* Universidad Central de Venezuela. Boletín de la Facultad de Ingeniería. (Caracas)
- Univ. e Politec. Torino Rend. Sem. Mat.* Università e Politecnico di Torino. Rendiconti del Seminario Matematico (già "Conferenze di Fisica e di Matematica"). (Torin)
- Univ. Illinois Bull. Engrg. Exper. Station Bull.* University of Illinois. Bulletin. Engineering Experiment Station Bulletin. (Urbana, Ill.)
- Univ. Lisboa Revista Fac. Ci. A.* Universidade de Lisboa. Revista da Faculdade de Ciências. 2.ª Série. A. Ciências Matemáticas. (Lisbon)
- Univ. Madrid Publ. Sec. Mat. Fac. Ci.* Universidad de Madrid. Publicaciones de la Sección de Matemática de la Facultad de Ciencias. (Madrid)
- Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Segunda Rev. (or Contrib.)* Universidad Nacional de La Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Segunda. Revista (or Contribuciones). (La Plata)
- Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Tercera Publ. Esp.* Universidad Nacional de La Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Tercera. Publicaciones Especiales. (La Plata)
- Univ. Nac. Tucumán Publ.* Universidad Nacional de Tucumán. Publicación. (Tucumán)
- Univ. Nac. Tucumán Rev. Ser. A.* Universidad Nacional de Tucumán. Facultad de Ciencias Exactas y Tecnología. Revista. Serie A. Matemáticas y Física Teórica. (Tucumán)
- Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadist.* Universidad de la República. Facultad de Ingeniería y Agrimensura. Montevideo-Uruguay. Publicaciones del Instituto de Matemática y Estadística. (Montevideo)
- Uspehi Fiz. Nauk.* Akademija Nauk SSSR. Uspehi Fizičeskikh Nauk. (Moscow-Leningrad) (Translated as: *Soviet Physics Uspekhi*)
- Uspehi Mat. Nauk.* Akademija Nauk SSSR i Moskovskoe Matematičeskoe Obščestvo. Uspehi Matematičeskikh Nauk. (Moscow-Leningrad) (Selected articles translated as: *Russian Math. Surveys*)
- Užgorod. Gos. Univ. Naučn. Zap. MVO USSR.* Užgorodskij Gosudarstvennyj Universitet. Naučnye Zapiski. (Lvov)
- Verh. Nederl. Akad. Wetensch. Afd. Natuurk. Sect. I.* Verhandelingen der Koninklijke Nederlandse Akademie van Wetenschappen, Afdeling Natuurkunde. Eerste Sectie. (Amsterdam)
- Vesci Akad. Nauk BSSR Ser. Fiz.-Tehn. Nauk.* Vesci Akademii Nauk BSSR. Serija Fizika-Těhničnyh Nauk. (Minsk)
- Vestnik Akad. Nauk Kazah. SSR.* Vestnik Akademii Nauk Kazahskoi SSR. (Alma-Ata)
- Vestnik Leningrad. Univ. Ser. Fiz. Him.* Vestnik Leningradskogo Universiteta. Serija Fiziki, Himii. (Leningrad)
- Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* Vestnik Leningradskogo Universiteta. Serija Matematiki, Mehaniki i Astronomii. (Leningrad)
- Vestnik Moskov. Univ. Ser. I Mat. Meh.* Vestnik Moskovskogo Universiteta. Serija I. Matematika, Mehanika. (Moscow)
- Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* Vestnik Moskovskogo Universiteta. Serija III. Fizika, Astronomija. (Moscow)
- Vestnik Statist.* Vestnik Statistiki. Organ Central'nogo Statističeskogo Upravlenija pri Sovete Ministrov SSSR. (Moscow)
- Vierteljahr. Naturforsch. Ges. Zürich.* Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich. (Zürich)
- Vijnana Parishad Anusandhan Patrika.* Vijnana Parishad Anusandhan Patrika [The Research Journal of the Hindi Science Academy]. (Allahabad)
- Vilniaus Valst. Univ. Mokslo Darbai Mat. Fiz. Chem. Mokslų Ser.* TSRS Aukštojo Mokslo Ministerija. Vilniaus Valstybinis Universitetas. Mokslo Darbai. Matematikos, Fizikos ir Chemijos Mokslų Serija. Ministerstvo Vyšego Obrazovaniya SSSR. Vil'nuskij Gosudarstvennyj Universitet. Učenyje Trudy. Serija Matematičeskikh, Fizičeskikh i Himičeskikh Nauk. (Vilna)
- Virginia J. Sci.* The Virginia Journal of Science. A Journal issued Quarterly by the Virginia Academy of Science. (Blacksburg, Va.)
- Voprosy Ist. Estest. i Tehn.* Akademija Nauk SSSR. Voprosy Istorii Estestvoznaniya i Tehniki. (Moscow)
- Voprosy Kosmog.* Akademija Nauk SSSR. Voprosy Kosmogonii. (Moscow)
- Voprosy Meh.* Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. Voprosy Mehaniki. (Moscow)
- Vsesojuz. Zaočn. Inst. Inž. Železn. Transport. Učen. Zap. Trudy Kafedr Vysš. Mat. i Teor. Meh. SSSR.* Ministerstvo Putei Soobščeniya Vsesojuznyj Zaočnyj Institut Inženerov Železnodorožnogo Transporta. Učenyje Zapiski. Trudy Kafedr Vysšej Matematiki i Teoretičeskoi Mehaniki. (Moscow)
- Vytisl. Mat.* Akademija Nauk SSSR. Vytislitel'nyj Centr. Vytislitel'naja Matematika. (Moscow)
- Wiedom. Mat. Roczniki Polskiego Towarzystwa Matematycznego. Ser. II.* Wiadomości Matematyczne. (Warsaw)
- Wiss. Z. Ernst-Moritz-Arndt-Univ. Greifswald Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Ernst-Moritz-Arndt-Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe. (Greifswald)
- Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen.* Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. (Jena/Thüringen)
- Wiss. Z. Hochsch. Elektrotech. Ilmenau.* Wissenschaftliche Zeitschrift der Hochschule für Elektrotechnik Ilmenau. (Ilmenau)
- Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Humboldt-Universität Berlin. Mathematisch-Naturwissenschaftliche Reihe. (Berlin)
- Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Karl-Marx-Universität Leipzig. Mathematisch-Naturwissenschaftliche Reihe. (Leipzig)
- Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Martin-Luther-Universität Halle-Wittenberg. Mathematisch-Naturwissenschaftliche Reihe. (Halle-Wittenberg)
- Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Pädagogischen Hochschule Potsdam. Mathematisch-Naturwissenschaftliche Reihe. (Potsdam)
- Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg.* Wissenschaftliche Zeitschrift der Technischen Hochschule für Chemie Leuna-Merseburg. (Leuna-Merseburg)
- Wiss. Z. Techn. Hochsch. Dresden.* Wissenschaftliche Zeitschrift der Technischen Hochschule Dresden. (Dresden) (Continued as: *Wiss. Z. Techn. Univ. Dresden*)
- Wiss. Z. Techn. Hochsch. Otto von Guericke Magdeburg.* Wissenschaftliche Zeitschrift der Technischen Hochschule Otto von Guericke Magdeburg. (Magdeburg)
- Wiss. Z. Techn. Univ. Dresden.* Wissenschaftliche Zeitschrift der Technischen Universität Dresden. (Dresden) (Formerly: *Wiss. Z. Techn. Hochsch. Dresden*)
- Yokohama Math. J.* Yokohama Mathematical Journal. (Yokohama)

ABBREVIATIONS OF NAMES OF JOURNALS

- Z. Angew. Math. Mech.* Zeitschrift für Angewandte Mathematik und Mechanik. Ingenieurwissenschaftliche Forschungsarbeiten. (Berlin)
- Z. Angew. Math. Phys.* Zeitschrift für Angewandte Mathematik und Physik. ZAMP. Journal of Applied Mathematics and Physics. Journal de Mathématiques et de Physiques Appliquées. (Basel)
- Z. Angew. Phys.* Zeitschrift für Angewandte Physik. (Berlin)
- Z. Astrophys.* Zeitschrift für Astrophysik. (Berlin-Göttingen-Heidelberg)
- Ž. Eksper. Teoret. Fiz.* Akademija Nauk SSSR. Žurnal Eksperimental'noi i Teoretičeskoj Fiziki. (Moscow) (Translated as: *Soviet Physics JETP*)
- Z. Flugwiss.* Zeitschrift für Flugwissenschaften. (Braunschweig)
- Z. Math. Logik Grundlagen Math.* Zeitschrift für Mathematische Logik und Grundlagen der Mathematik. (Berlin)
- Z. Meteorol.* Zeitschrift für Meteorologie. (Berlin)
- Z. Naturforsch.* Zeitschrift für Naturforschung. (Tübingen)
- Z. Phonetik Sprachwiss. Kommunikat.* Zeitschrift für Phonetik Sprachwissenschaft und Kommunikationsforschung. (Berlin)

- Z. Physik.* Zeitschrift für Physik. (Berlin-Göttingen-Heidelberg)
- Ž. Tehn. Fiz.* Akademija Nauk SSSR. Žurnal Tehničkoj Fiziki. (Moscow-Leningrad) (Translated as: *Soviet Physics Tech. Phys.*)
- Ž. Vychisl. Mat. i Mat. Fiz.* Akademija Nauk SSSR. Žurnal Vychislitel'noj Matematiki i Matematičeskoj Fiziki. (Moscow) (Translated as: *U.S.S.R. Comput. Math. and Math. Phys.*)
- Z. Wahrscheinlichkeitstheorie und Verw. Gebiete.* Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete. (Berlin)
- Zastos. Mat.* Polska Akademia Nauk. Instytut Matematyczny. Zastosowania Matematyki. (Warsaw)
- Zbl.* Zentralblatt für Mathematik und ihre Grenzgebiete. (Berlin-Göttingen-Heidelberg)
- Zbl. Math.* Zentralblatt für Mathematik und ihre Grenzgebiete. (Berlin-Göttingen-Heidelberg) (Usually abbreviated *Zbl* in the text of *Math. Reviews*)
- Zeszyty Nauk. Univ. Jagiello. Prace Mat.* Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Matematyczne. (Matematyka, Fizyka, Chemia) (Kraków)
- Zeszyty Nauk. Uniw. Mickiewicza.* Zeszyty Naukowe Uniwersytetu im. A. Mickiewicza. (Poznań)

JOURNALS IN TRANSLATION

- Automat. Remote Control.* Automation and Remote Control. (A translation of *Avtomatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR). (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemekh.*)
- Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* Bulletin (Izvestiya) Academy of Sciences, USSR. Geophysics Series. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Geofiz.*)
- Chinese Math.* Chinese Mathematics. Translation of *Acta Mathematica Sinica*. (Providence, R.I.) (Translation of *Acta Math. Sinica*)
- J. Appl. Math. Mech.* Journal of Applied Mathematics and Mechanics. (Translation of the Soviet journal *Prikladnaja Matematika i Mehanika*). (New York) (Translation of *Prikl. Mat. Meh.*)
- Radio Engng. and Electronics.* Radio Engineering and Electronics. (Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication). (New York) (Translation of *Radiotekhn. i Elektron.*)
- Russian Math. Surveys.* Russian Mathematical Surveys. (A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskich Nauk*). (London) (Translation of *Uspehi Mat. Nauk*)
- Soviet Astronom. AJ.* Soviet Astronomy. AJ. (A translation of *Astronomičeskij Žurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Astronom. Ž.*)
- Soviet Math. Dokl.* Soviet Mathematics. Doklady. (A translation of the mathematics section of *Doklady Akademii Nauk SSSR*). (Providence, R.I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)

- Soviet Physics Acoust.* Soviet Physics. Acoustics. (A translation of *Akustičeskij Žurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Akust. Ž.*)
- Soviet Physics Cryst.* Soviet Physics. Crystallography. (A translation of the journal *Kristallografija* of the Academy of Sciences of the USSR). (New York) (Translation of *Kristallografija*)
- Soviet Physics Dokl.* Soviet Physics. Doklady. (A translation of the physics sections of *Doklady Akademii Nauk SSSR*). (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics JETP.* Soviet Physics. JETP. (A translation of *Ž. Eksperimental'noj i Teoretičeskoj Fiziki* of the USSR). (New York) (Translation of *Ž. Eksper. Teoret. Fiz.*)
- Soviet Physics Solid State.* Soviet Physics. Solid State. (A translation of the journal *Fizika Tverdogo Tela* of the Academy of Sciences of the USSR). (New York) (Translation of *Fiz. Tverd. Tela*)
- Soviet Physics Tech. Phys.* Soviet Physics. Technical Physics. (A translation of *Žurnal Tehničkoj Fiziki* of the Academy of Sciences of the USSR). (New York) (Translation of *Ž. Tehn. Fiz.*)
- Soviet Physics Uspekhi.* Soviet Physics. Uspekhi. (A translation of *Uspehi Fizičeskich Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R.). (New York) (Translation of *Uspehi Fiz. Nauk*)
- Theor. Probability Appl.* Theory of Probability and its Applications. (An English translation of the Soviet journal *Teoriya Veroyatnostei i ee Primenenija*). (Philadelphia, Pa.) (Translation of *Teor. Veroyatnost. i Primenen.*)
- U.S.S.R. Comput. Math. and Math. Phys.* U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vychisl. Mat. i Mat. Fiz.*)

ERRATA AND ADDENDA

VOLUME 26

#731: Ishii, Tadashi

The reviewer writes that his reviewer's remark at the end of the review is meaningless and should be disregarded.

#3575: Cuesta, N.

The reviewer wishes to add the following correction to his review. "The set X of statements referred to in the review of Professor Cuesta's paper is a subset of a fixed finite set P . The main result of the paper is that the set $(\Sigma X') - M'$ is not necessarily empty for a given theory M and thus every postulate of M is an axiom of M , but not necessarily conversely."

#3924: Kleiner, W.

Replace the word "convex" by "connected", and reverse the directions of the last two inequalities in the review.

#4078: Gesztelyi, Ernő

The reviewer states that he overlooked a sentence of the paper, namely, that Z should contain at least one sequence all of whose elements are different from zero; thus the result of the paper is correct without any additional condition.

#4104: Goes, Günther

In the last line of the review, read $o(k^{-1})$ instead of $O(k^{-1})$.

#5259: Bellman, Richard; Cooke, Kenneth L.

By oversight, the reviewer failed to mention the book of Pinney [*Ordinary difference-differential equations*,

Univ. California Press, Berkeley, Calif., 1958; MR 20 #4065] which considers some topics not considered by Bellman and Cooke—especially concerning perturbation procedures for periodic solutions of nonlinear equations with a small parameter.

#5687: Konijn, H. S.

In line 13 of the review, replace the word "unbiased" by "biased".

#5827: Rudnev, Ju. V.

The pagination in the heading should be 167-240.

#5995: Asano, Chooichiro

The last line of the displayed formulae should read:

$$= X_1 \text{ if } d > \Lambda.$$

#6444: Blanch, G.; Clemm, D. S.

The q -interval should be .05 and not .01 as stated.

#6712: Wergeland, Harald

The reviewer writes that the author had overlooked the fact that he was solving the equation $F'' - \lambda^2 F = 0$ instead of $F'' + \lambda^2 F = 0$, so that his equation (5) should read

$$(5) \quad \begin{aligned} F(x) &= A \cosh \lambda x, & x < 1 \\ &= B e^{-\lambda^2 x}, & x > 1. \end{aligned}$$

There should be corresponding changes in (6), (7), (13) and (15) where the trigonometric function must be changed to the hyperbolic. Equation (16) seems to be correct.

VOLUME 27

#70: Sobociński, Bolesław

In line 4 the name should be "Grau", not "Crau".

#347: Duren, P. L.

The right-hand sides of the two inequalities should read $u/K(1-k^2)$, $2u/\pi(1+k)^2$ and not $uK(1-k^2)$, $2u\pi(1+k)^2$ as printed.

#725: Doičinov, Doičin

The reviewer indicates that a communication from the author both stresses the chronology of the papers cited and asserts that the derivation of his results from those of the reviewer would be more complicated, and that, in any case, his results go farther.

#788: Ramachandran, B.

A list of errata relating to this paper can be found on p. 265 of Volume 11 (1962) of the same journal.

#2031: Kagan, A. M.

The expression (Russian) should follow the title in the heading.

#2168: Nowinski, J.

The review of Nowinski's paper should be numbered 2168, not 1268.

#2389: Nagell, Trygve

The pagination in the heading should read "i-xi; addition, ibid. 110 (1963), 303" rather than "i-xi".

#3948: Jones, B. Frank, Jr.

The reviewer writes to say that line 9 from the end of the review should read: Define the mapping $a \rightarrow La$ by

$$La(t) = \frac{\pi^{1/2} g(t)}{\int_0^t f(\tau) \left[\int_0^t a(y) dy \right]^{-1/2} d\tau}.$$

TRANSLITERATION OF RUSSIAN

Russian Letter Cap. Ital.	Mathematical Reviews	Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U.S. Library of Congress	Amer. Slavic & E. European Review	Journal of Symbolic Logic
А а	a	a	a	a	a	a	a	a
Б б	b	b	b	b	b	b	b	b
В в	v	v	v	v	v	v	v	v
Г г	g	g	g	g	g	g	g	g
Д д	d	d	d	d	d	d	d	d
Е е	e	e	e	e	e	e	e	e
Ё ё	e	e	ë	ë	ë	ë	ë	é
Ж ж	zh	zh	zh	zh	zh	zh	zh	ž
З з	z	z	z	z	z	z	z	z
И и	i	i	i	i	i	i	i	i
Й й	j	j	j	j	j	j	j	j
К к	k	k	k	k	k	k	k	k
Л л	l	l	l	l	l	l	l	l
М м	m	m	m	m	m	m	m	m
Н н	n	n	n	n	n	n	n	n
О о	o	o	o	o	o	o	o	o
П п	p	p	p	p	p	p	p	p
Р р	r	r	r	r	r	r	r	r
С с	s	s	s	s	s	s	s	s
Т т	t	t	t	t	t	t	t	t
У у	u	u	u	u	u	u	u	u
Ф ф	f	f	f	f	f	f	f	f
Х х	h	ch	kh	kh	kh	kh	kh	h
Ц ц	c	c	c	ts	ts	ts	c	c
Ч ч	ch	ch	ch	ch	ch	ch	ch	ch
Ш ш	sh	sh	sh	sh	sh	sh	sh	sh
Щ щ	shch	shch	shch	shch	shch	shch	shch	shch
Ъ ъ								
Ы ы	y	y	y	i	ī	y	y	y
Ь ь	y	y	y	i	ī	y	y	y
Э э	è	è	e	é	é	é	è	e
Ю ю	ju*	ju	ju	yu	yu	ū	ju	ū
Я я	ja†	ja	ja	ya	ya	ia	ja	ā

* formerly yu
† formerly ya

al
olio
c

TRANSLITERATION OF ALPHABET

Alphabet Letter	Alphabet Number	Alphabet Symbol	Alphabet Symbol	Alphabet Symbol	Alphabet Symbol	Alphabet Symbol	Alphabet Symbol	Alphabet Symbol
A	1	A	A	A	A	A	A	A
B	2	B	B	B	B	B	B	B
C	3	C	C	C	C	C	C	C
D	4	D	D	D	D	D	D	D
E	5	E	E	E	E	E	E	E
F	6	F	F	F	F	F	F	F
G	7	G	G	G	G	G	G	G
H	8	H	H	H	H	H	H	H
I	9	I	I	I	I	I	I	I
J	10	J	J	J	J	J	J	J
K	11	K	K	K	K	K	K	K
L	12	L	L	L	L	L	L	L
M	13	M	M	M	M	M	M	M
N	14	N	N	N	N	N	N	N
O	15	O	O	O	O	O	O	O
P	16	P	P	P	P	P	P	P
Q	17	Q	Q	Q	Q	Q	Q	Q
R	18	R	R	R	R	R	R	R
S	19	S	S	S	S	S	S	S
T	20	T	T	T	T	T	T	T
U	21	U	U	U	U	U	U	U
V	22	V	V	V	V	V	V	V
W	23	W	W	W	W	W	W	W
X	24	X	X	X	X	X	X	X
Y	25	Y	Y	Y	Y	Y	Y	Y
Z	26	Z	Z	Z	Z	Z	Z	Z

* See also
the Appendix

